

SpiralEd Solutions

3rd Grade Spirals

SpiralEd Solutions

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spiraledsolutions.com

Spiral 1

1 (3.2A)

The sum of 6 ten thousands, 2 hundreds and 4 tens can be expressed as what number in standard form?

A 60,204

B 60,240

C 62,040

D 6,240

2 (3.2B)

What is the relationship between the thousands place and the hundreds place in the number shown?

61,110

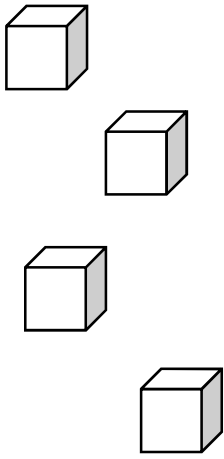
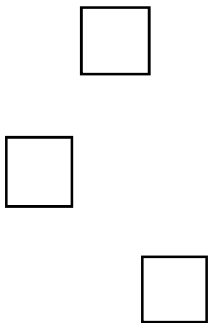
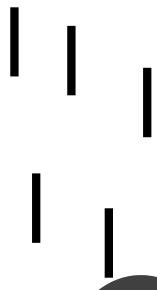

F The thousands place is ten times greater than the hundreds place.

G The thousands place is sixty times greater than the hundreds place.

H The hundreds place is ten times greater than the thousands place.

J The thousands place is six times greater than the hundreds place.

3 (3.2A) Kelsey placed blocks on a place value mat to represent a number.

Thousands	Hundreds	Tens	Ones
			

What is Kelsey's number in standard form?

A 43,500

B 435

C 4,530

D 4,350

Spiral 2

1 (3.2D)

The table shows the population of four cities in Texas.

Populations

City	Population
Conroe	87,654
Temple	76,256
Bryan	85,455
Mansfield	70,981

Which comparison of these populations is true?

F $\text{Bryan} < \text{Conroe}$

G $\text{Temple} < \text{Mansfield}$

H $\text{Bryan} < \text{Temple}$

J $\text{Mansfield} > \text{Temple}$

2 (3.2D)

The table shows the length in miles of rivers in the United States.

U. S. Rivers

River	Length in miles
Rio Grande	1,759
Mississippi	2,202
Yukon	
Missouri	2,341
Colorado	1,450

If the length of the Yukon River is between the length of the Rio Grande and the Mississippi, what could be the length of the Yukon?

A 1,749

B 1,587

C 2,220

D 1,979

3 (3.2A)

The expanded notation of a number is shown.

$$(4 \times 10,000) + (2 \times 100) + (6 \times 10)$$

What is the standard form of this number?

F 42,006

G 40,260

H 4,260

J 4,206

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Spiral 3

1 (3.2B)

Which statement is NOT correct?

- A** Sixty tens is equivalent to six hundreds.
- B** Six hundreds is equivalent to sixty ones.
- C** Six ten thousands is equivalent to sixty thousands.
- D** Sixty hundreds is equivalent to six thousands.

2 (3.2C)

The point on the number line represents the number of miles driven by the Jackson family on vacation.



Which statement best describes the number of miles driven by the Jackson family on vacation?

- F** The Jackson family drove a little more than 2,000 miles, because the point is closer to 2,000.
- G** The Jackson family drove almost 3,000 miles, because the point is closer to 3,000.
- H** The Jackson family drove less than 2,000 miles.
- J** The Jackson family drove more than 3,000 miles.

3 (3.2D)

The table shows the populations of four cities in Texas.

Populations

City	Population
Victoria	67,015
Longview	81,647
San Marcos	63,509
Georgetown	74,180

Which comparison of these populations is true?

- A** Georgetown $<$ Victoria
- B** San Marcos $<$ Victoria
- C** Longview $<$ Georgetown
- D** San Marcos $>$ Longview

Spiral 4

1 (3.2D)

The table shows the number of students in five schools.

Students

School	Number of Students
School A	2,456
School B	2,564
School C	2,465
School D	2,586

Which list correctly orders the schools from least number of students to greatest number of students?

F School A, School C, School B, School D

G School A, School B, School D, School C

H School D, School B, School C, School A

J School C, School A, School B, School D

2 (3.2B)

What is the relationship between the tens place and the ones place in the number shown?

41,411

- A** The value of the digit in the tens place is ten times than the value of the digit in the ones place.
- B** The value of the digit in the ones place is equal to the value of the digit in the tens place.
- C** The value of the digit in the ones place is ten times the value of the digit in the ten tens place.
- D** The value of the digit in the tens place is forty times the value of the digit in the ones place.

3 (3.2D)

The table shows the number of gallons of water in four water tanks.

Water

Tank	Number of Gallons
Tank 1	36,321
Tank 2	35,418
Tank 3	37,108
Tank 4	37,399

Which comparison of the amount of water in the four tanks is correct?

F the amount of water in Tank 1 < the amount of water in Tank 2

G the amount of water in Tank 3 < the amount of water in Tank 2

H the amount of water in Tank 1 > the amount of water in Tank 4

J the amount of water in Tank 4 > the amount of water in Tank 3

Spiral 5

1 (3.2A)

The expanded notation of a number is shown.

$$(5 \times 10,000) + (2 \times 1,000) + (6 \times 1)$$

What is the standard form of this number?

A 50,206

B 5,260

C 52,006

D 526

2 (3.2D)

Which set of numbers is ordered correctly?

F $5,267 < 5,627 < 6,275 < 6,572$

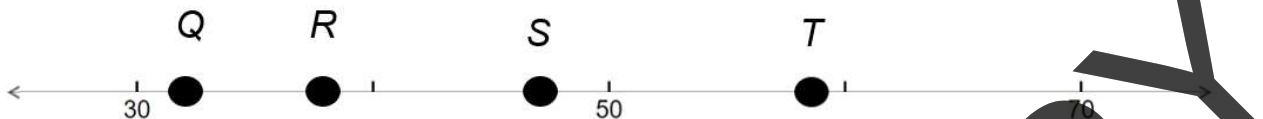
G $4,871 > 4,781 > 4,187 > 4,817$

H $3,218 < 3,821 < 3,281 < 2,318$

J $6,893 > 6,983 > 6,398 > 6,389$

3 (3.2C)

Jackson described a point on the number line.



- The number is between thirty and forty.
- The number is closer to forty.

Which point did Jackson describe?

A Point Q

B Point R

C Point S

D Point T

Spiral 6

1 (3.2D)

The list shows three clues about a number.

- The number is less than 5,075.
- The number is greater than 4,999.
- The number has a digit less than 6 in the tens place.

Which of these could be the number described?

F 5,061

G 5,004

H 4,990

J 5,160

2 (3.2A)

The standard form of a number is shown.

89,507

What is the expanded notation form of this number?

A $(8 \times 1,000) + (9 \times 100) + (5 \times 10) + (7 \times 1)$

B $(8 \times 10,000) + (9 \times 1,000) + (5 \times 10) + (7 \times 1)$

C $(8 \times 10,000) + (9 \times 1,000) + (5 \times 100) + (7 \times 1)$

D $(8 \times 10,000) + (9 \times 1,000) + (5 \times 100) + (7 \times 10)$

3 (3.2D)

The table shows the number of books in four school libraries.

Library Books

School	Number of Books
School A	4,321
School B	3,467
School C	4,512
School D	3,684

Which list correctly orders the schools from greatest number of books to least number of books?

F School A, School C, School B, School D

G School C, School A, School D, School B

H School D, School B, School C, School A

J School C, School A, School B, School D

Spiral 7

1 (3.2D)

The table shows the number of votes for four candidates for mayor.

Votes

Name	Number of Votes
Candidate A	45,361
Candidate B	54,631
Candidate C	45,613
Candidate D	54,316

Which comparison of the votes received is NOT correct?

- A** Votes for Candidate B > Votes for Candidate D
- B** Votes for Candidate C > Votes for Candidate A
- C** Votes for Candidate A > Votes for Candidate D
- D** Votes for Candidate D > Votes for Candidate C

2 (3.2D)

The table shows the heights in feet of five mountains in Colorado.

Colorado Mountains

Mountain	Height in feet
Longs Peak	14,259
Pikes Peak	14,155
Mount Elbert	14,440
Mount Harvard	14,421
Mount Princeton	14,204

Which list correctly orders the mountains from highest peak to lowest?

F Pikes Peak, Mount Princeton, Longs Peak, Mount Harvard, Mount Elbert

G Mount Elbert, Mount Harvard, Mount Princeton, Longs Peak, Pikes Peak

H Mount Elbert, Mount Harvard, Longs Peak, Mount Princeton, Pikes Peak

J Pikes Peak, Mount Princeton, Mount Harvard, Longs Peak, Mount Elbert

3 (3.2A)

Which expression represents the number 758?

A $700 + 50 + 80$

B $500 + 200 + 50 + 80$

C $700 + 80 + 5$

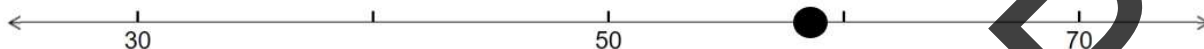
D $500 + 200 + 50 + 5 + 3$

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Spiral 8

1 (3.2C)

The point on the number line represents the weight of Amber's basset hound in pounds.



Which statement best describes the basset hound's weight?

- F** The basset hound weighs more than sixty pounds.
- G** The basset hound weighs less than fifty pounds.
- H** The basset hound weighs between fifty and sixty pounds.
- J** The basset hound weighs closer to fifty pounds than sixty pounds.

Q

2 (3.2D)

The list shows three clues about a number.

- The number is less than 25,790.
- The number is greater than 24,861.
- The number has a digit in the hundreds place that is one less than the digit in the thousands place.

Which of these could be the number described?

A 25,388

B 25,800

C 25,491

D 24,900

3 (3.3H)

Baker, Barron, and Jack each ordered a medium pizza. Baker ate $\frac{5}{8}$ of his pizza, Barron ate $\frac{5}{6}$ of his pizza, and Jack ate $\frac{5}{10}$ of his.

Which statement is true?

F Barron ate more pizza than Baker, because sixths are larger than eighths.

G Baker ate more pizza Barron, because 8 is greater than 6.

H Jack ate the most pizza, because ten is the largest denominator.

J The three boys ate the same amount of pizza, because they each ate 5 slices.

Spiral 9

1 (3.3C)

What is represented by the unit fraction, $\frac{1}{2}$?

- A** one part of a whole that is divided into two equal parts
- B** two parts of a whole
- C** one part of a whole that is divided into three equal parts
- D** one part of a whole that is divided into two unequal parts

2 (3.3C)

Which unit fraction represents one part of a whole that is divided into three equal parts?

F $\frac{1}{6}$

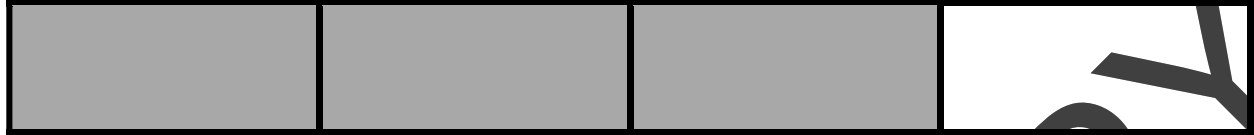
G $\frac{1}{4}$

H $\frac{1}{3}$

J $\frac{1}{8}$

3 (3.3A)

Bailey shaded a strip diagram to represent a fraction.



What fraction of the strip diagram is shaded?

A $\frac{1}{4}$

B $\frac{3}{1}$

C $\frac{4}{3}$

D $\frac{3}{4}$

Spiral 10

1 (3.3H)

Elizabeth bought fabric to make a banner. She bought:

- $\frac{1}{2}$ -yard blue fabric
- $\frac{1}{3}$ -yard yellow fabric
- $\frac{1}{4}$ -yard red fabric

Which statement is true?

F Elizabeth bought more red fabric than yellow, because 4 is greater than 3.

G Elizabeth bought more yellow fabric than red fabric, because thirds are larger than fourths.

H The three pieces of material are equal, since the numerator of each fraction is one.

J Elizabeth bought more red fabric than blue, because 4 is greater than 2.

2 (3.3A)



What fraction is represented by the arrow?

A $\frac{1}{3}$

B $\frac{3}{1}$

C $\frac{2}{4}$

D $\frac{2}{3}$

3 (3.2C)

The point on the number line represents the number of fans who attended a Texas Rangers Baseball game on Sunday.



Which statement best describes the number of fans who attended the game on Sunday?

- F** Close to 23,000 fans attended the game.
- G** More than 24,000 fans attended the game.
- H** Exactly 24,000 fans attended the game.
- J** Close to 24,000 fans attended the game.

Spiral 11

1 (3.2D)

The list shows three clues about a number.

- The number is less than 68,421.
- The number is greater than 64,528
- The number has a digit less than 3 in the hundreds place.

Which of these could be the number described?

A 67,692

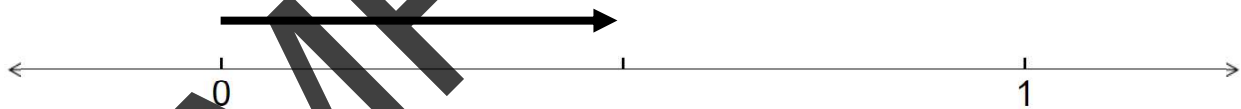
B 66,478

C 63,251

D 67,228

2 (3.3B)

A fraction is shown on the number line below.



What fraction is shown on the number line?

F $\frac{1}{2}$

G $\frac{2}{3}$

H $\frac{2}{1}$

J $\frac{1}{3}$

3 (3.3D)

The pet store has white rabbits and black rabbits. The rabbits are shown below.



Which expression represents the fraction of rabbits that are black?

A $\frac{2}{3} + \frac{2}{3}$

B $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

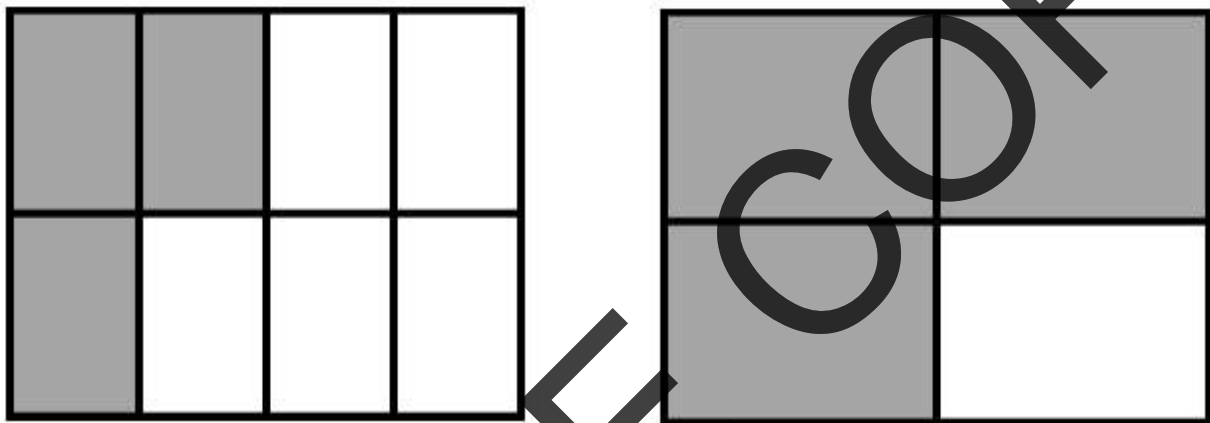
C $\frac{1}{2} + \frac{1}{2}$

D $\frac{1}{3} + \frac{1}{3}$

Spiral 12

1 (3.3H)

The models shown are the same size and are each divided into equal parts. The models are shaded to show two fractions.



Based on the models, which statement is true?

F $\frac{3}{8}$ is greater than $\frac{3}{4}$, because eight is greater than four.

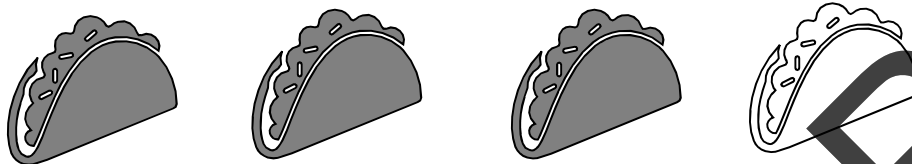
G $\frac{3}{8}$ is less than $\frac{1}{4}$, because three parts shaded out of eight is less than one part shaded out of four

H $\frac{3}{8}$ is less than $\frac{3}{4}$, because fourths are larger than eighths.

J $\frac{5}{8}$ is greater than $\frac{3}{4}$, because five parts shaded out of eight is greater than three parts shaded out of four.

2 (3.3D)

The shaded tacos represent the fraction of her dinner that Amelia ate.



Which expression represents the fraction of the tacos that Amelia ate?

A $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

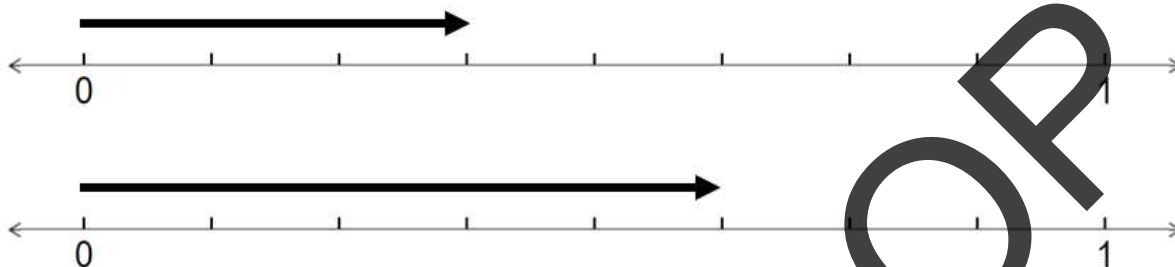
B $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

C $\frac{1}{4} + \frac{1}{4} + \frac{4}{1}$

D $\frac{3}{4} + \frac{3}{4} + \frac{3}{4}$

3 (3.3H)

The number lines model two different fractions.



Which comparison of these fractions is true?

F $\frac{3}{8} > \frac{5}{8}$

G $\frac{3}{8} < \frac{5}{8}$

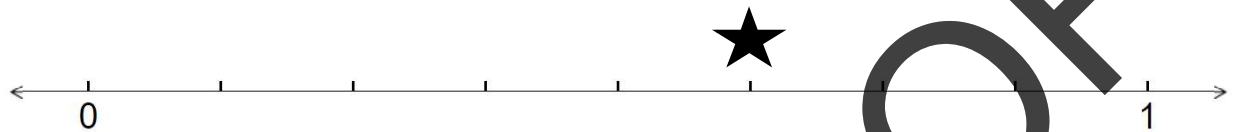
H $\frac{3}{8} = \frac{5}{8}$

J $\frac{3}{8} + \frac{5}{8}$

Spiral 13

1 (3.3A)

A star represents a fraction on a number line.



What fraction does the star represent?

A $\frac{5}{3}$

B $\frac{3}{5}$

C $\frac{5}{8}$

D $\frac{8}{5}$

2 (3.2D)

The list shows three clues about a number.

- The number is less than 3,303.
- The number is greater than 3,287.
- The number has a digit greater than 6 in the tens place.

Which of these could be the number described?

F 3,301

G 3,496

H 3,291

J 3,259

3 (3.3B)

A star marks a fraction on the number line below.



What fraction is shown on the number line?

A $\frac{5}{8}$

B $\frac{8}{5}$

C $\frac{5}{3}$

D $\frac{3}{8}$

Spiral 14

1 (3.3C)

Which unit fraction represents one part of a whole that is divided into eight equal parts?

F $\frac{1}{6}$

G $\frac{1}{4}$

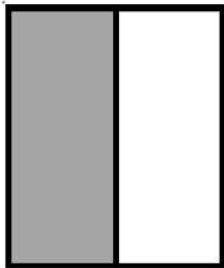
H $\frac{1}{3}$

J $\frac{1}{8}$

2 (3.3F)

Four fraction models are shown.

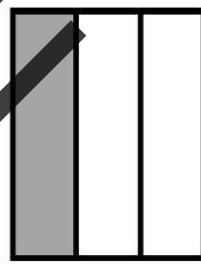
Model A



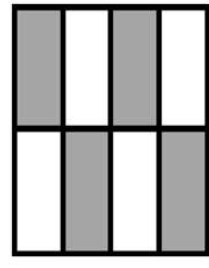
Model B



Model C



Model D



Three of the models represent equivalent fractions. Which model does NOT represent a fraction equivalent to the other three?

A Model A

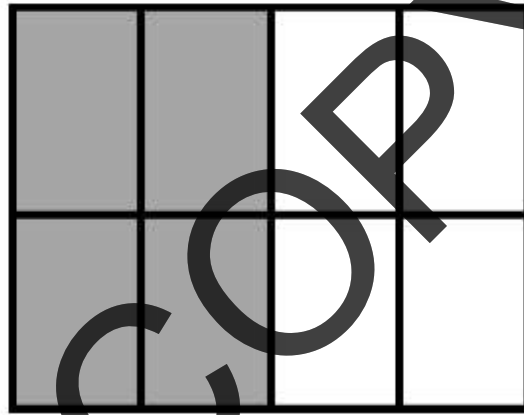
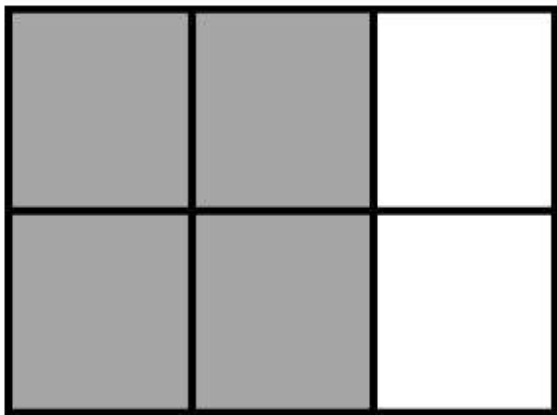
B Model B

C Model C

D Model D

3 (3.3H)

The models shown are the same size and are each divided into equal parts. The models are shaded to show two fractions.



Based on the models, which statement is true?

F $\frac{4}{6} > \frac{4}{8}$

G $\frac{4}{6} < \frac{4}{8}$

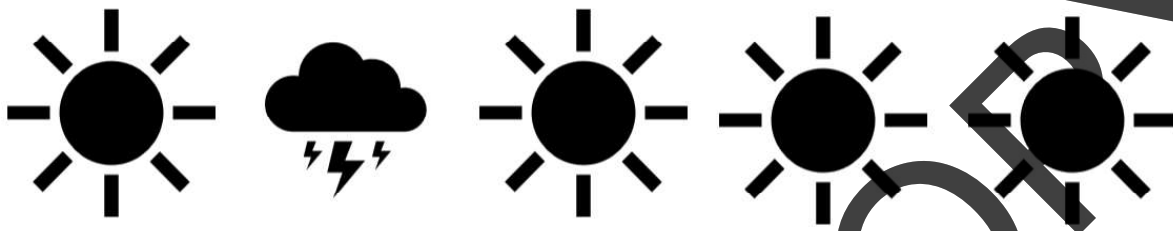
H $\frac{4}{6} = \frac{4}{8}$

J $\frac{4}{8} > \frac{4}{6}$

Spiral 15

1 (3.3D)

Shontay put a sticker on the class calendar each day to show the weather.



Which expression represents the fraction of the days that were sunny?

A $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

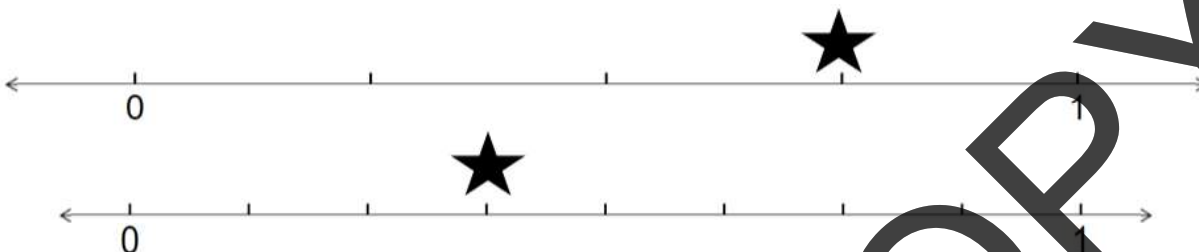
B $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

C $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

D $\frac{5}{1} + \frac{5}{1} + \frac{5}{1}$

2 (3.3H)

The number lines model two different fractions.



Which comparison of these fractions is true?

F $\frac{3}{8} < \frac{3}{4}$

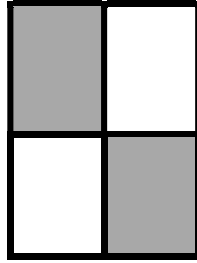
G $\frac{3}{8} > \frac{3}{4}$

H $\frac{1}{4} > \frac{5}{8}$

J $\frac{3}{4} < \frac{3}{8}$

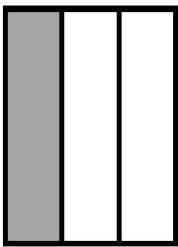
3 (3.3F)

A model is shaded to represent a fraction.

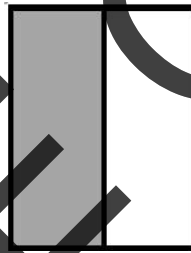


Which model is shaded to represent an equivalent fraction?

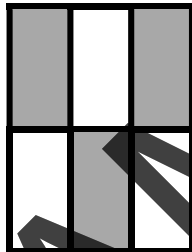
A



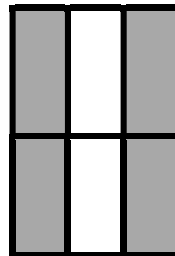
B



C



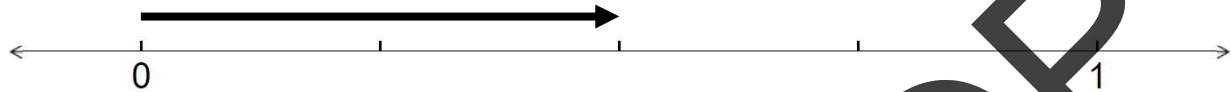
D



Spiral 16

1 (3.3B)

A fraction is shown on the number line below.



What fraction is shown on the number line?

F $\frac{1}{2}$

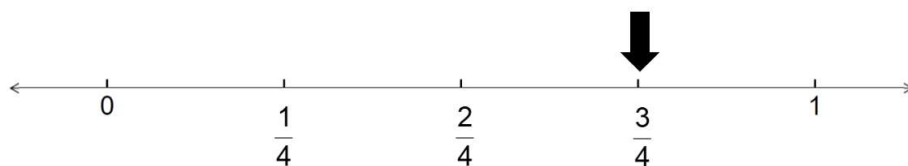
G $\frac{2}{4}$

H $\frac{3}{4}$

J $\frac{4}{5}$

2 (3.3F)

An arrow marks $\frac{3}{4}$ on a number line.

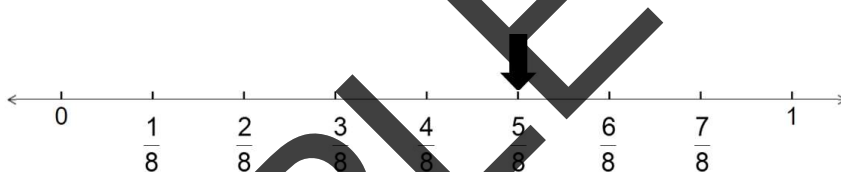


Which of these number lines shows a fraction equivalent to $\frac{3}{4}$ marked with an arrow?

A



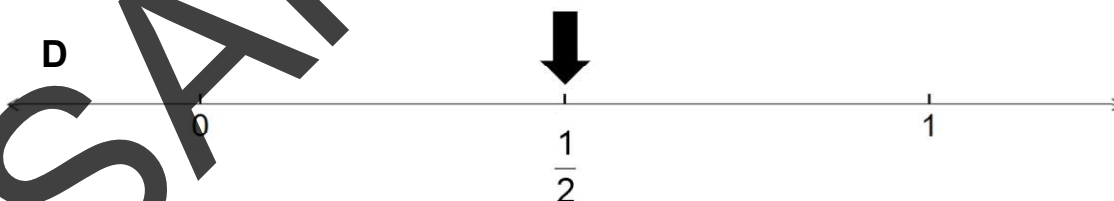
B



C



D



3 (3.3E)

Adam, Mark, Elaine, and Paul equally shared the tacos shown.



What fraction of the tacos did each person eat?

F $\frac{3}{4}$

G $\frac{4}{8}$

H $\frac{2}{8}$

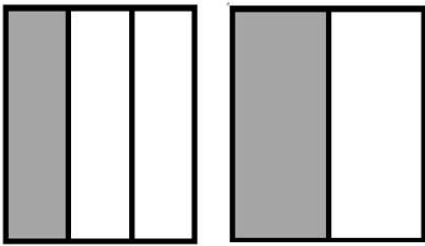
J $\frac{3}{6}$

Spiral 17

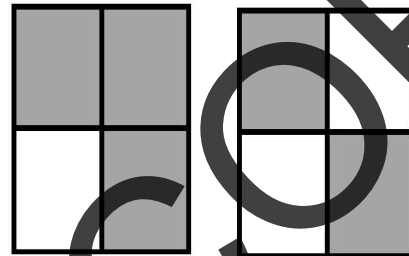
1 (3.3F)

Four fraction model pairs are shown. Which pair represents equivalent fractions?

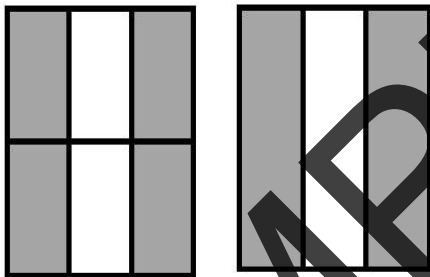
A



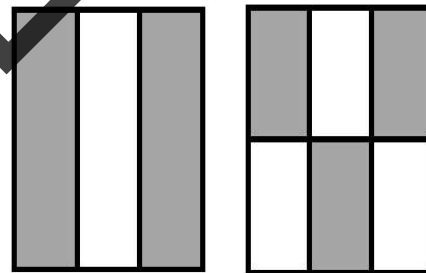
B



C

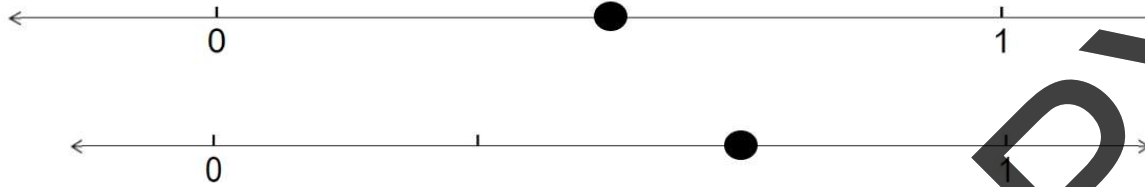


D



2 (3.3G)

The model represents two fractions.

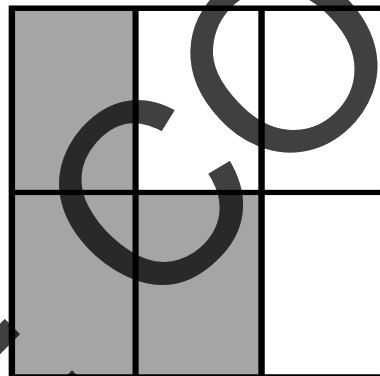
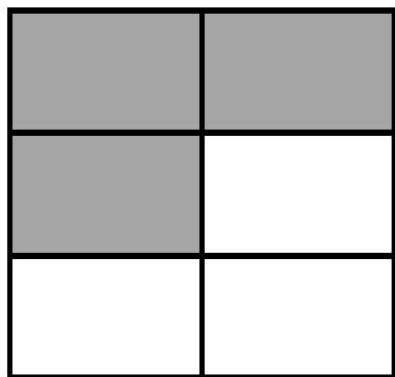


Which statement about the two fractions is correct?

- F** The two fractions are equivalent, because they both have a dot.
- G** The two fractions are equivalent, because they are both part of the same whole.
- H** The two fractions are not equivalent, because the dots represent different places on the two number lines.
- J** The two fractions are not equivalent, because the number lines are not divided into the same number of pieces.

3 (3.3G)

The model represents two fractions.



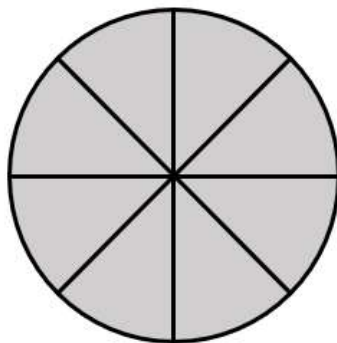
Which statement about the two fractions is correct?

- A** The two fractions are equivalent, because they represent the same parts of the same whole.
- B** The two fractions are not equivalent, because the shaded amounts are not the same.
- C** The two fractions are not equivalent, because the wholes are not the same.
- D** The two fractions are not equivalent, they are not turned the same way.

Spiral 18

1 (3.3E)

Kayla and a friend equally shared the pieces of pizza shown below.



What fraction of the pieces of pizza did each person get?

F $\frac{3}{4}$

G $\frac{4}{8}$

H $\frac{1}{3}$

J $\frac{1}{4}$

2 (3.4A)

Olivia made cookies for a school dinner.

- Monday 128
- Tuesday 215
- Wednesday 202

What is the total number of cookies Olivia made?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
① 0	① 0	① 0	
① 1	① 1	① 1	
① 2	① 2	① 2	
① 3	① 3	① 3	
① 4	① 4	① 4	
① 5	① 5	① 5	
① 6	① 6	① 6	
① 7	① 7	① 7	
① 8	① 8	① 8	
① 9	① 9	① 9	

3 (3.4A)

Harry kept a record of his phone bill for four months.

Phone Charges

Month	Cost
May	\$114
June	\$200
July	\$138
August	\$206

What were Harry's total phone charges for the four months?

F \$548

G \$658

H \$648

J \$598

Spiral 19

1 (3.4B)

Cam rode his bike each day for three days last week.

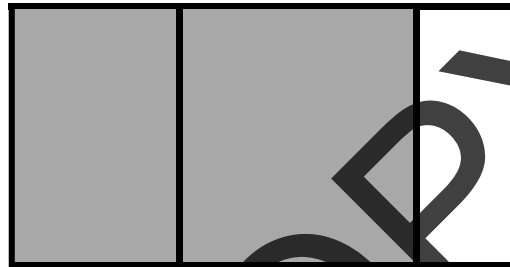
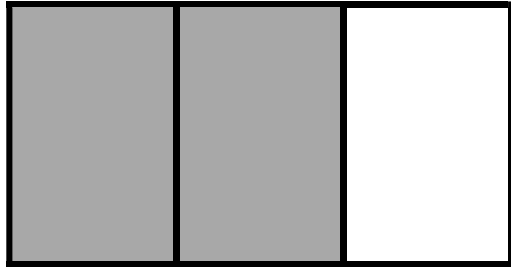
- Monday 37 miles
- Wednesday 51 miles
- Friday 32 miles

What is the best estimate for the number of miles he rode in those three days?

- A** 130 miles
- B** 90 miles
- C** 120 miles
- D** 150 miles

2 (3.3G)

The model represents two fractions.



Which statement about the two fractions is correct?

F The two fractions are equivalent, because they represent the same part of the same size whole.

G The two fractions are not equivalent, because they do NOT represent the same part of the same size whole.

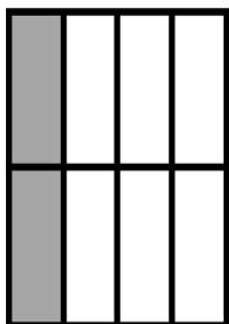
H The two fractions are not equivalent, because the wholes are not divided into the same number of pieces.

J The two fractions are equivalent, because two parts of each whole are shaded.

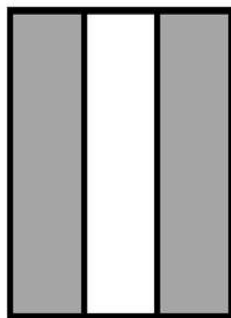
3 (3.3F)

Four fraction models are shown.

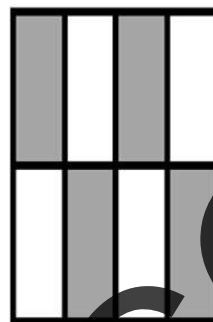
Model A



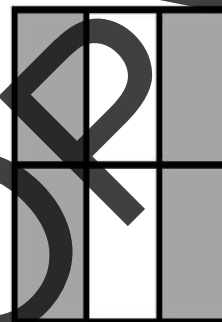
Model B



Model C



Model D



Which two models are shaded to show equivalent fractions?

- A** Model B and Model C
- B** Model B and Model D
- C** Model A and Model C
- D** Model D and Model C

Spiral 20

1 (3.4A)

The third-grade class needs \$800 for a field trip. So far, they have raised \$629. How much more money do they need to raise?

F \$281

G \$171

H \$189

J \$218

2 (3.4B)

Jasmine bought one shirt for \$48 and another for \$31. What is the best estimate for the difference in the price of the shirts?

A \$30

B \$10

C \$20

D \$40

3 (3.4A)

Aaliya kept records of the birds seen by her birdwatching club.

Birdwatching Record

Bird	Number Seen
Redbird	82
Blue Jay	45
Robin	43
Hawk	103
Eagle	7

What is the difference between the number of hawks and the number of eagles?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

Spiral 21

1 (3.4A)

Amelia kept a record of the number of miles she drove each day on her vacation.

- Saturday 225 miles
- Sunday 189 miles
- Monday 326 miles
- Tuesday 155 miles

How many more miles did Amelia drive on the last two days of her vacation than she drove on the first two days of her vacation?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.2D)

The list shows three clues about a number.

- The number is less than 5,275.
- The number is greater than 4,999.
- The number has a zero in the tens place.

Which of these could be the number described?

F 5,101

G 5,040

H 4,990

J 5,100

3 (3.4A)

Isla started the month with \$125 in her savings account. She second week of the month she added \$98. The last week of the month she added \$148. How much did Isla have in her account at the end of the month?

A \$411

B \$361

C \$371

D \$351

Spiral 22

1 (3.2B)

What is the relationship between the tens place and the hundreds place in the number shown?

1,555

F The tens place is ten times greater than the hundreds place.

G The hundreds place is ten times greater than the tens place.

H The tens place is five times greater than the hundreds place.

J The hundreds place is five times greater than the tens place.

2 (3.4A)

Emily needs \$450 to pay for textbooks for school. She earned \$258 housesitting for her neighbor. Her grandmother gave her \$125 to help with school. How much more money does Emily need to earn to pay for textbooks?

A \$69

B \$78

C \$167

D \$67

3 (3.4B)

Alberto bought new clothes for school.

- Jeans \$48
- Shirts \$61
- Shoes \$119

What is the best estimate of the total amount Alberto spent?

F \$230

G \$250

H \$310

J \$190

Spiral 23

1 (3.4B)

Demetri kept a record of his phone bill for four months.

Phone Charges

Month	Cost
September	\$111
October	\$201
November	\$128
December	\$205

What is the best estimate of Demetri's total phone charges for the four months?

A \$540

B \$710

C \$600

D \$500

2 (3.4C)

Elena has this much money in her wallet. How much money does Elena have?



F \$6.37

G \$2.37

H \$6.32

J \$2.32

3 (3.7B)

A triangle has a perimeter of 39 inches. One side of the triangle is 12 inches long. The second side of the triangle is 13 inches long. What is the length of the third side of the triangle?

A 14 inches

B 13 inches

C 12 inches

D 15 inches

Spiral 24

1 (3.5A)

Benjamin has two boxes of granola bars.

- He has 12 Honey Oat bars.
- He has 18 Peanut Crunch bars.
- He gives 5 bars to Harper.

Which number sentence can be used to determine how many granola bars Benjamin has left?

F $12 + 18 - 5 = \square$

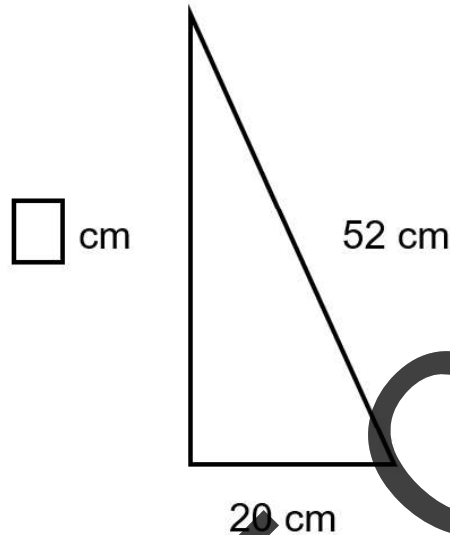
G $12 + 18 + 5 = \square$

H $18 - 12 + 5 = \square$

J $18 - 12 - 5 = \square$

2 (3.7B)

Cierra knows that the perimeter of the triangle is 120 centimeters.



How can she find the length of the missing side?

- A** Add 52 and 20 and subtract the sum from 120 for an answer of 48 centimeters.
- B** Add 52 and 20 to get a sum of 72 centimeters.
- C** Add 52 and 20 and add the sum to 120 to get an answer of 192 centimeters.
- D** Take the difference between 52 and 20 to get an answer of 32 centimeters.

3 (3.7B)

Benja created a table showing the side lengths and perimeters of four figures.

Benja's Shapes

Shape	Side Lengths	Perimeter
Square	6 in., 6 in., 6 in., 6 in.	24 in.
Rectangle	5 ft., 4 ft., 5 ft., 4 ft.	<input type="text"/> ft.
Triangle	<input type="text"/> cm, 19 cm, 12 cm	48 cm
Trapezoid	9 in., 12 in., 9 in., 15 in.	<input type="text"/> in.

Which statement is true?

- F** The perimeter of the square should be 36 inches.
- G** The missing side of the triangle is 18 centimeters.
- H** The perimeter of the trapezoid is 44 inches.
- J** The perimeter of the rectangle is 18 feet.

Spiral 25

1 (3.2A)

Which number is represented by the expression shown?

$$10,000 + 500 + 20 + 6$$

A 10,526

B 1,526

C 15,026

D 10,562

2 (3.5A)

Sebastian had \$485 in his checking account. After buying groceries he had \$427 left in his account.

Which number sentence can be used to determine how much Sebastian spent on groceries?

F $485 + \square = 427$

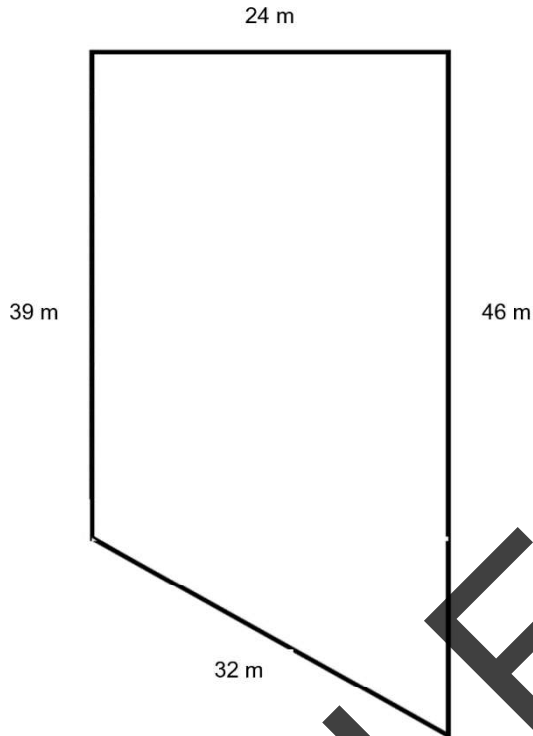
G $485 - \square = 427$

H $485 + 427 = \square$

J $485 + \square = 427$

3 (3.7B)

The fence line for a school playground is shown.



What is the perimeter of the park in meters?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

Spiral 26

1 (3.5A)

A bakery made 800 hotdog buns at the beginning of the day. They shipped 640 to a grocery store. At 2:00 PM they baked another 800 hotdog buns.

Which number sentence can be used to determine the number of buns the bakery has after the second baking?

F $800 - 640 - 800 = \square$

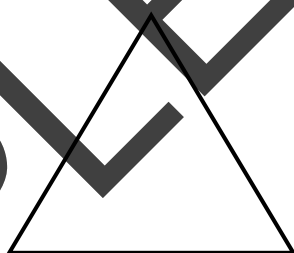
G $800 + 640 + 800 = \square$

H $800 - 640 + 800 = \square$

J $800 + 640 - 800 = \square$

2 (3.7B)

The three sides of a triangle are congruent.



Which statement is true?

A If one side equals 15 centimeters, then the perimeter is 30 centimeters.

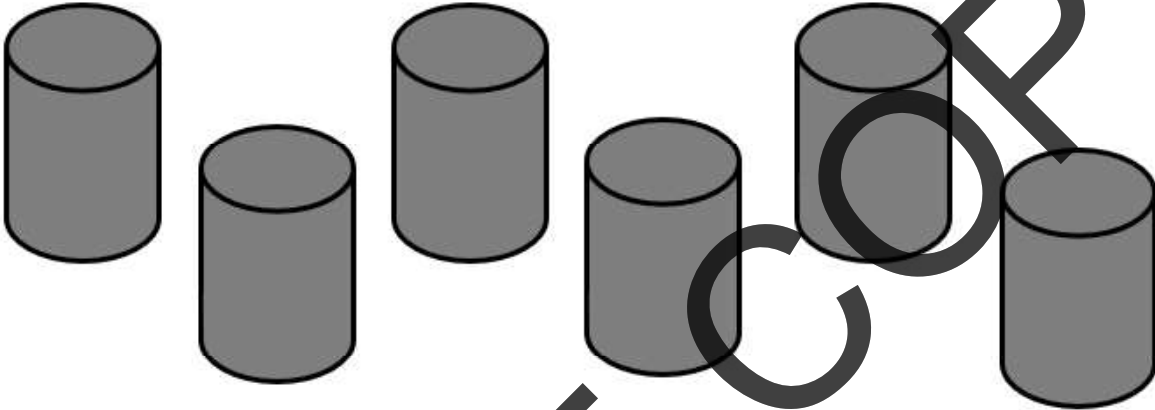
B If the perimeter equals 27 inches, then each side equals 8 inches.

C If one side equals 13 meters, then the other two sides each equal 15 meters.

D If the perimeter equals 33 feet, then each side equals 11 feet.

3 (3.3E)

Jackson and two friends equally shared the cans of juice shown below.



What fraction of the juice cans did each person get?

F $\frac{3}{6}$

G $\frac{5}{6}$

H $\frac{1}{6}$

J $\frac{2}{6}$

Spiral 27

1 (3.7B)

Mario created a table showing the side lengths and perimeters of four figures.

Mario's Shapes

Shape	Side Lengths	Perimeter
Square	4 cm, 4 cm, 4 cm, 4 cm	16 cm
Rectangle	5 cm, 2 cm, 5 cm, 2 cm	14 cm
Triangle	8 cm, 12 cm, 9 cm	28 cm
Trapezoid	8 cm, 9 cm, 8 cm, 12 cm	37 cm

For which shape is Mario's information wrong?

A square

B rectangle

C triangle

D trapezoid

2 (3.3B)

A fraction is shown on the number line below.



What fraction is shown on the number line?

F $\frac{1}{2}$

G $\frac{2}{3}$

H $\frac{3}{4}$

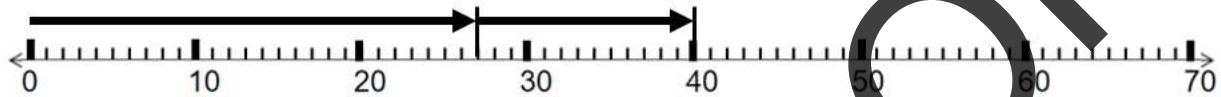
J $\frac{4}{5}$

3 (3.5A)

Jax set a goal to read 40 pages each evening. On Tuesday at 6 PM he had 13 pages left to read to meet his goal.

Which number line represents a way to determine how many pages Jax has read?

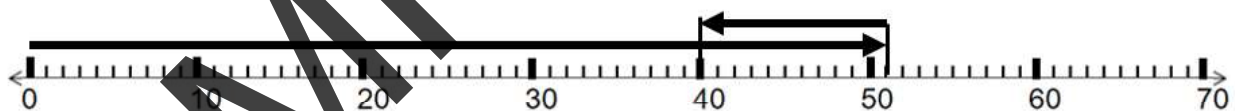
A



B



C



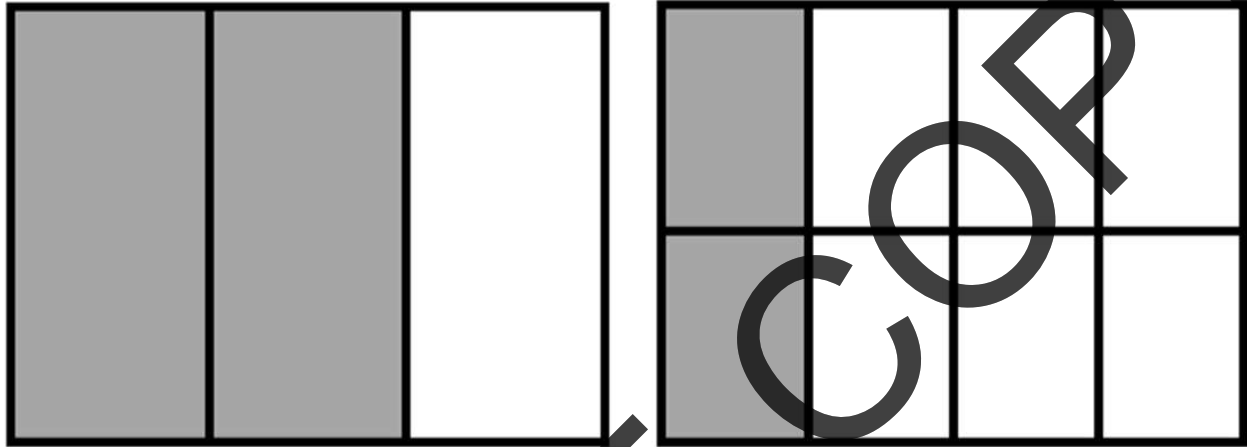
D



Spiral 28

1 (3.3H)

The models shown are the same size and are each divided into equal parts. The models are shaded to show two fractions.



Based on the models, which statement is true?

F $\frac{2}{3}$ is less than $\frac{2}{8}$, because eighths are larger than thirds.

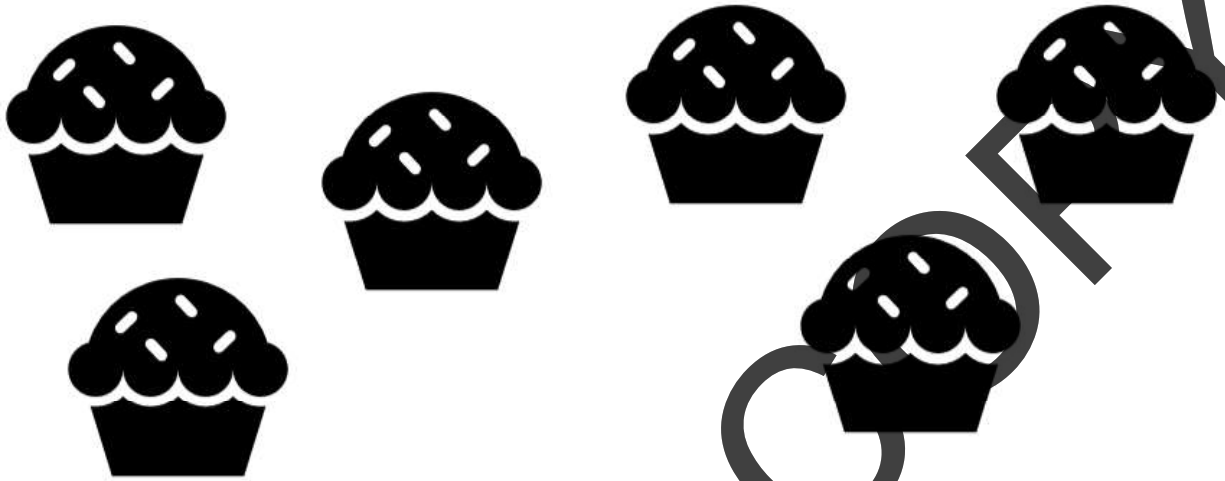
G $\frac{2}{3}$ is greater than $\frac{2}{8}$, because two parts shaded out of three is more than two parts shaded out of eight.

H $\frac{1}{3}$ is less than $\frac{6}{8}$, because one is less than six.

J $\frac{2}{3}$ is less than $\frac{2}{8}$, because two parts shaded out of three is less than two parts shaded out of eight.

2 (3.3E)

Two friends equally shared the cupcakes shown.



What fraction of the cupcakes did each person get?

A $\frac{3}{4}$

B $\frac{4}{8}$

C $\frac{1}{3}$

D $\frac{3}{6}$

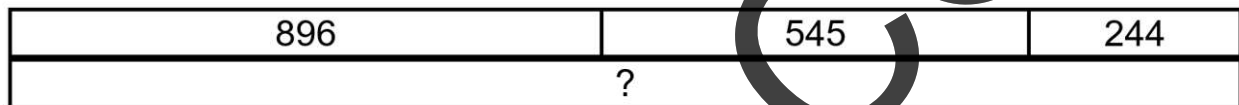
3 (3.5A)

A school has 896 students.

- 545 of these students ride the bus to school.
- 244 come to school by car.
- The rest either walk or bike to school.

Which model can be used to find the number of students in the school who either walk or bike to school?

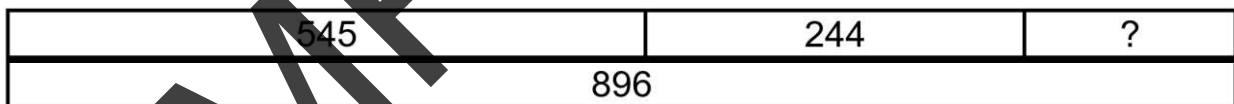
F



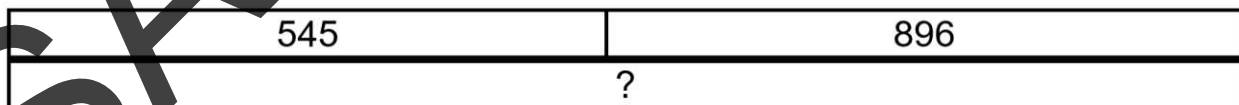
G



H



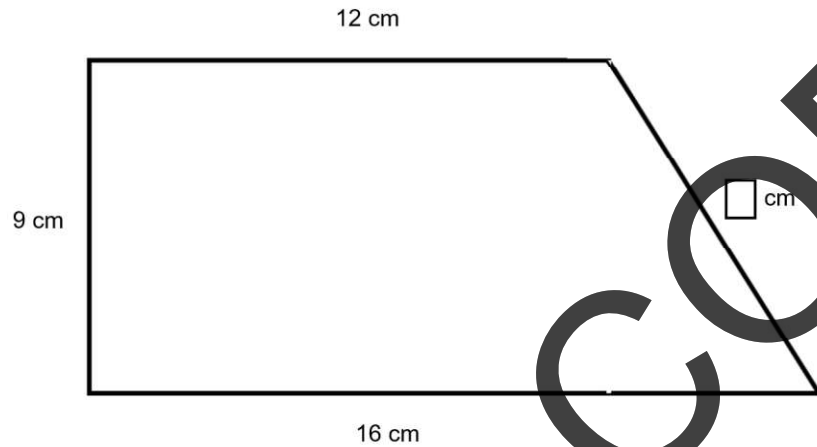
J



Spiral 29

1 (3.7B)

The perimeter of this figure is 47 centimeters.



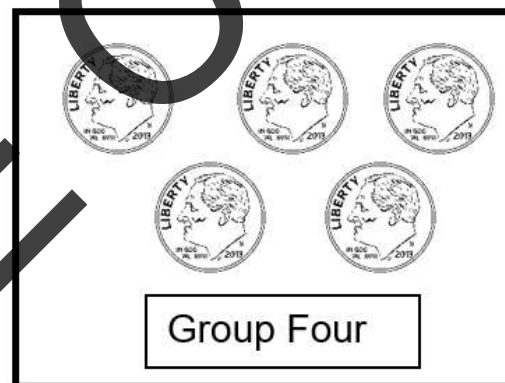
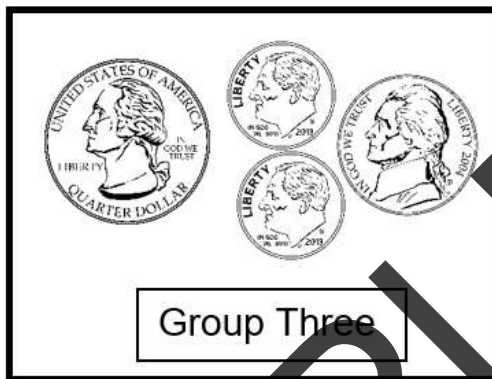
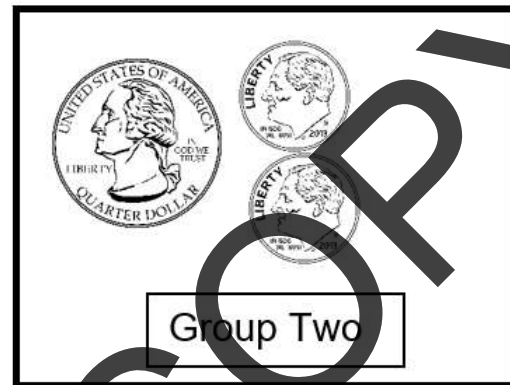
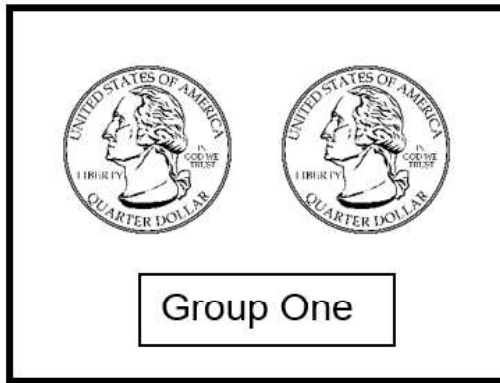
What is the length of the missing side?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.4C)

Four groups of coins are shown.



Which groups have the same value?

F Group One and Group Two only

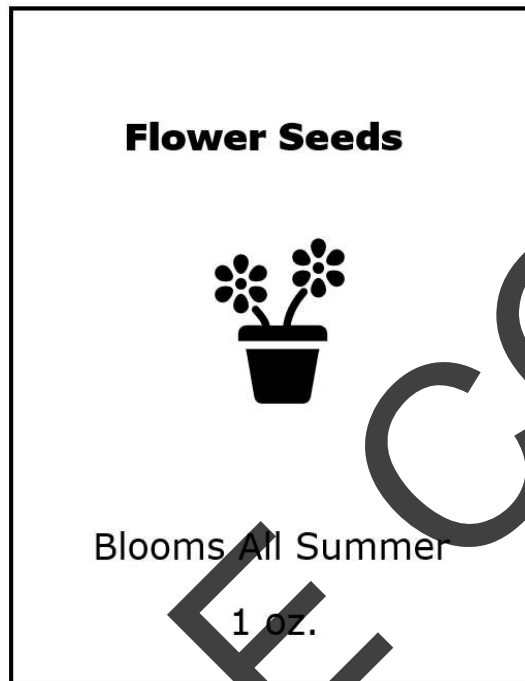
G Group One, Group Three, and Group Four

H Group Two, Group Three, and Group Four

J Group One and Group Four only

3 (3.7B)

The front of a packet of seeds is shown.



Use a ruler to measure the length and width of the seed packet to the nearest centimeter.

Which measurement is closest to the perimeter of the seed packet to the nearest centimeter?

A 63 cm

B 16 cm

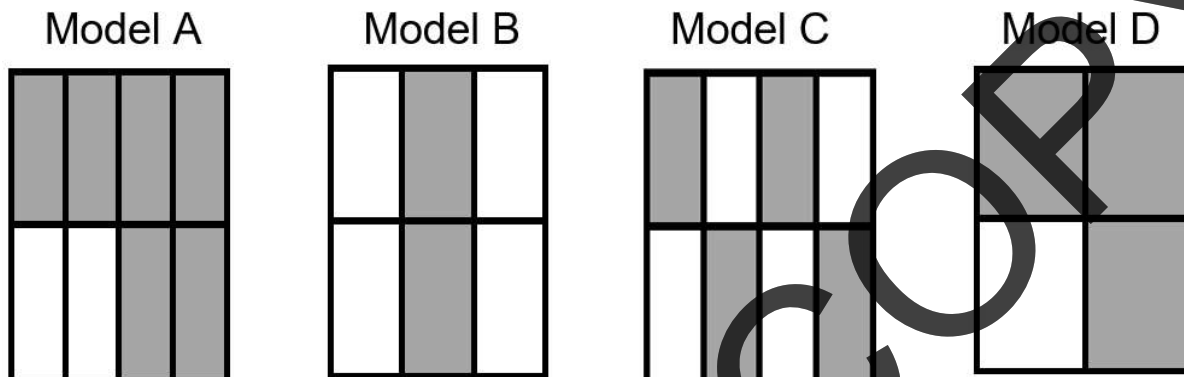
C 32 cm

D 25 cm

Spiral 30

1 (3.3F)

Four fraction models are shown.



Which two models are shaded to show equivalent fractions?

F Model B and Model C

G Model A and Model D

H Model A and Model C

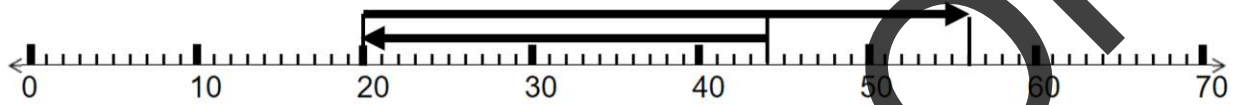
J Model D and Model C

2 (3.5A)

Lauren buys 36 tickets for the school carnival. She uses 20 tickets. Her grandmother buys her 12 more tickets.

Which number line represents a way to determine the number of carnival tickets Lauren has left to spend?

A



B



C



D



3 (3.2D)

The chart shows the height in centimeters of four third grade students.

Student Height	
Name	Height (cm)
Bailey	130 cm
Miller	129 cm
Rocky	
Brazos	134 cm
Barrett	126 cm

Rocky is shorter than Bailey, but taller than Barrett.

Which could be Rocky's height in centimeters?

F 125 cm

G 131 cm

H 127 cm

J 132 cm

Spiral 31

1 (3.4A)

Oliver plans to plant 560 trees to start a pecan orchard. The first week of planting he puts in 138 trees. The second week he adds 209 more trees. How many trees does Oliver need to plant to start his orchard?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.2A)

The sum of 8 thousands, 5 hundreds and 6 ones can be expressed as what number in standard form?

- F** 8,560
- G** 80,506
- H** 8,506
- J** 80,560

3 (3.2A)

Which of these describes the number 95,959?

- A** the sum of nine ten thousands, five thousands, nine hundreds, and fifty-nine ones
- B** the sum of ninety-five thousands, nine hundreds, and nine ones
- C** the sum of ninety-five ten thousands, nine hundreds, and fifty-nine ones
- D** the sum of nine ten thousands, five hundreds, and fifty-nine ones

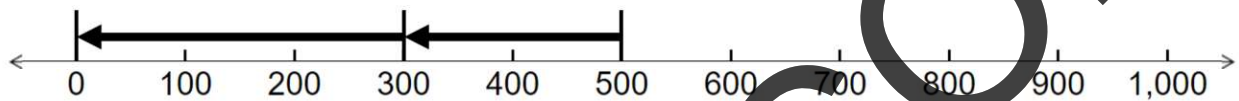
Spiral 32

1 (3.5A)

At the beginning of the month Demetrius has \$500 in his savings account. He takes out \$200 to pay bills. He puts in \$300 after he gets paid.

Which number line represents a way to determine how much money Demetrius has in his account?

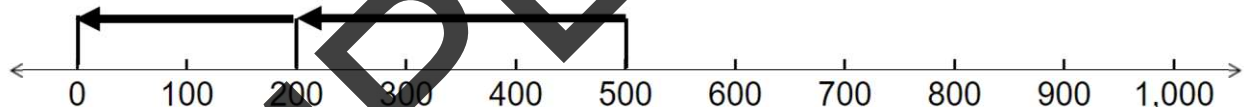
F



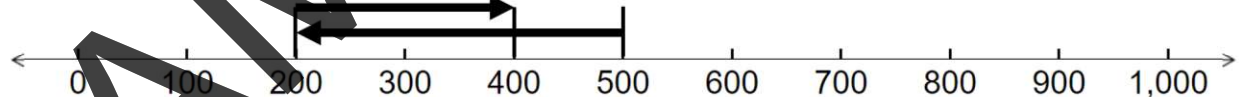
G



H

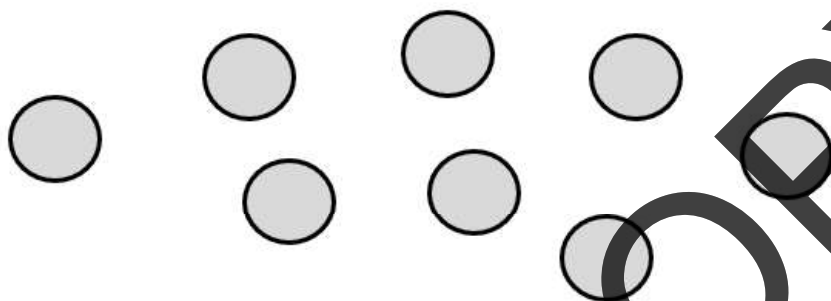


J



2 (3.3E)

Abel and three friends equally divided the marbles shown below. What fraction of the marbles did each boy get?



What fraction of the marbles did each boy get?

A $\frac{2}{8}$

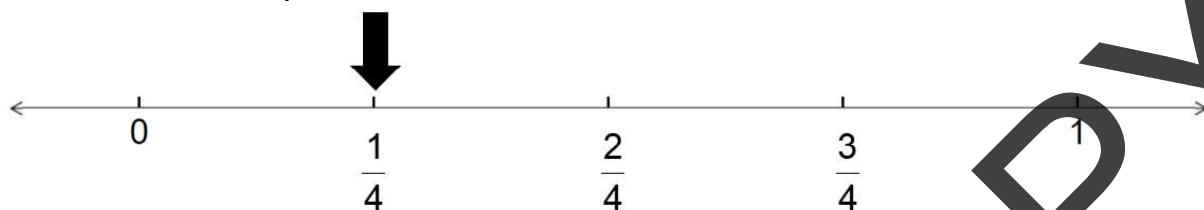
B $\frac{3}{8}$

C $\frac{5}{8}$

D $\frac{4}{8}$

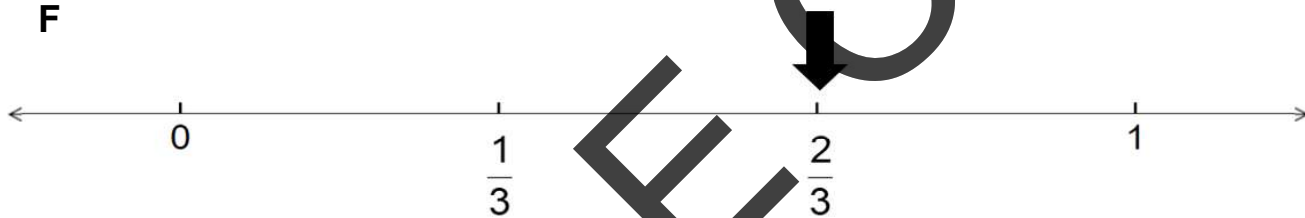
3 (3.3F)

An arrow marks $\frac{1}{4}$ on a number line.

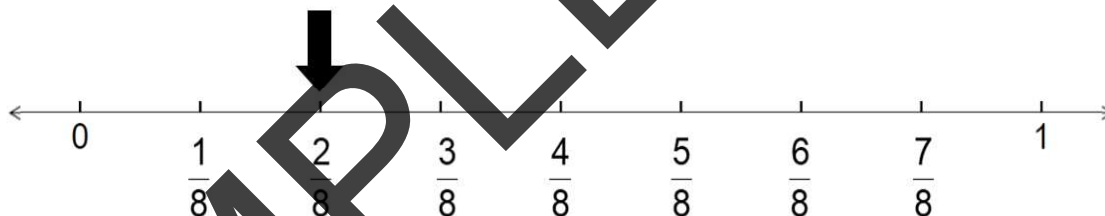


Which of these number lines shows a fraction equivalent to $\frac{1}{4}$ marked with an arrow?

F



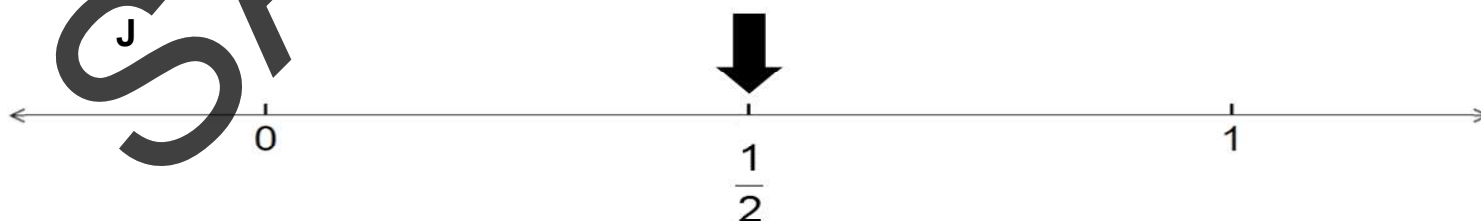
G



H



J



Spiral 33

1 (3.5A)

Ella raised a hog to show at the fair. When Ella got the hog, he weighed 228 pounds. The hog got out of the pen, was gone for 3 days, and lost 39 pounds. When the hog returned, Ella fed him well, and he gained 72 pounds before the show.

Which number sentence can be used to determine the hog's weight at the time of the show?

A $228 - 39 - 72 = \square$

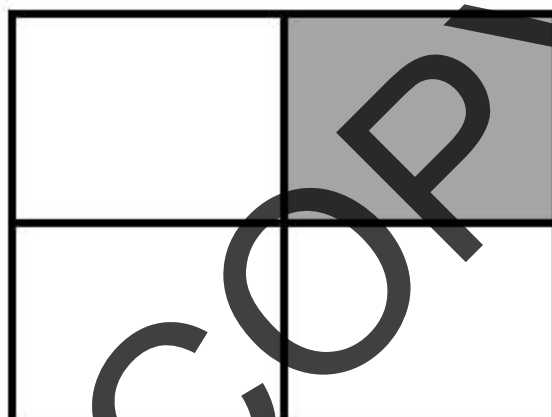
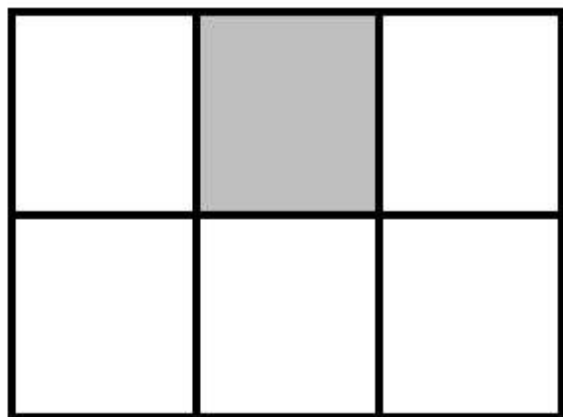
B $228 + 39 - 72 = \square$

C $228 - 39 + 72 = \square$

D $228 + 39 + 72 = \square$

2 (3.3H)

The models shown are the same size and are each divided into equal parts. The models are shaded to show two fractions.



Based on the models, which statement is true?

F $\frac{1}{6} = \frac{1}{4}$

G $\frac{1}{6} < \frac{1}{4}$

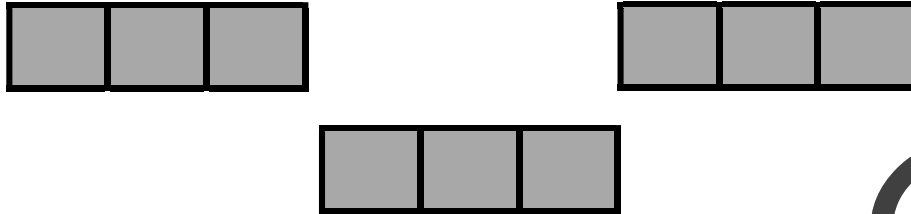
H $\frac{1}{6} > \frac{3}{4}$

J $\frac{1}{4} < \frac{1}{6}$

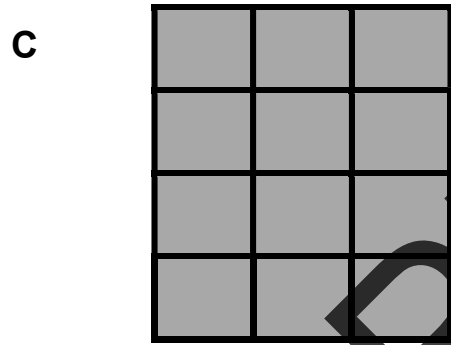
3 (3.4E)

Which of these models does NOT represent $4 \times 3 = \square$?

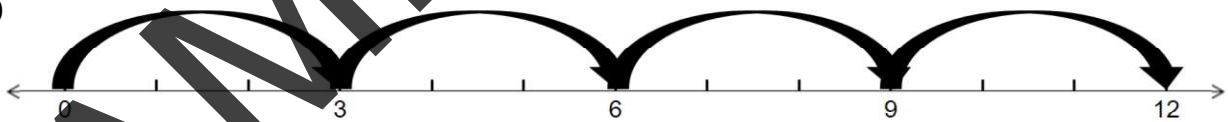
A



B $3 + 3 + 3 + 3$



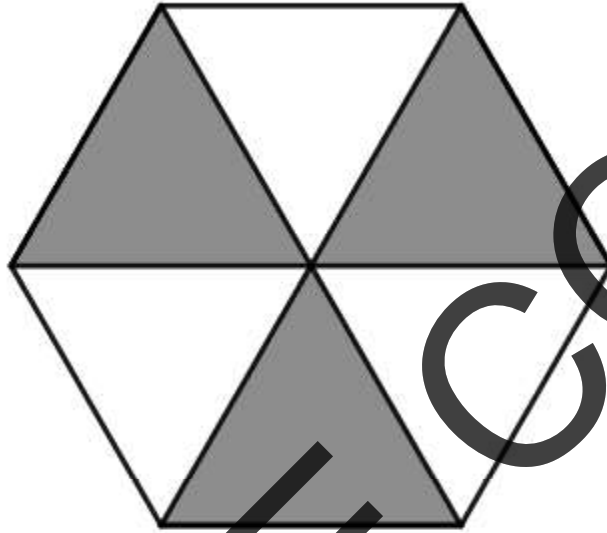
D



Spiral 34

1 (3.3A)

Part of a hexagon is shaded.



What fraction of the hexagon is shaded?

F $\frac{6}{3}$

G $\frac{3}{6}$

H $\frac{3}{3}$

J $\frac{3}{8}$

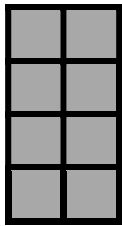
2 (3.4E)

Which of these models represents 5×2 ?

A $5 + 2$

B $2 + 2 + 2 + 2 + 2$

C



D $2 \times 2 \times 2 \times 2 \times 2$

3 (3.3C)

What is represented by the unit fraction, $\frac{1}{3}$?

F one part of a whole that is divided into two equal parts

G two parts of a whole

H one part of a whole that is divided into three equal parts

J one part of a whole that is divided into three unequal parts

Spiral 35

1 (3.4K)

A store has 9 shelves with 11 boxes of cereal on each shelf. How many boxes of cereal are there in all?

A 99

B 90

C 20

D 81

2 (3.4A)

Jack kept a record of the amount of money he spent on gas for his car for five weeks.

Gas Charges

Week	Cost
Week One	\$58
Week Two	\$73
Week Three	\$46
Week Four	\$64
Week Five	\$55

What is the difference in the amount Jack spent in the week he spent the most compared to the week in which he spent the least?

F \$18

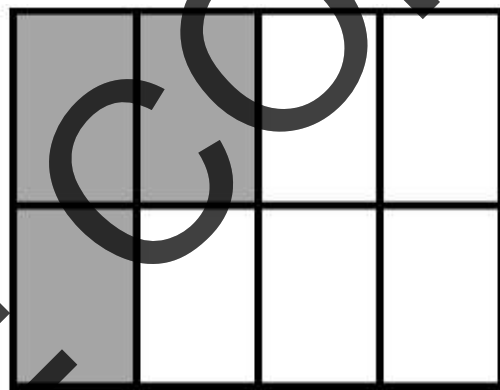
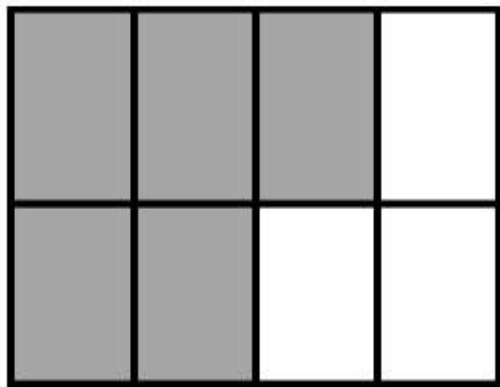
G \$37

H \$27

J \$28

3 (3.3H)

The models shown are the same size and are each divided into equal parts. The models are shaded to show two fractions.



Based on the models, which statement is true?

A $\frac{3}{8} > \frac{5}{8}$

B $\frac{3}{8} = \frac{5}{8}$

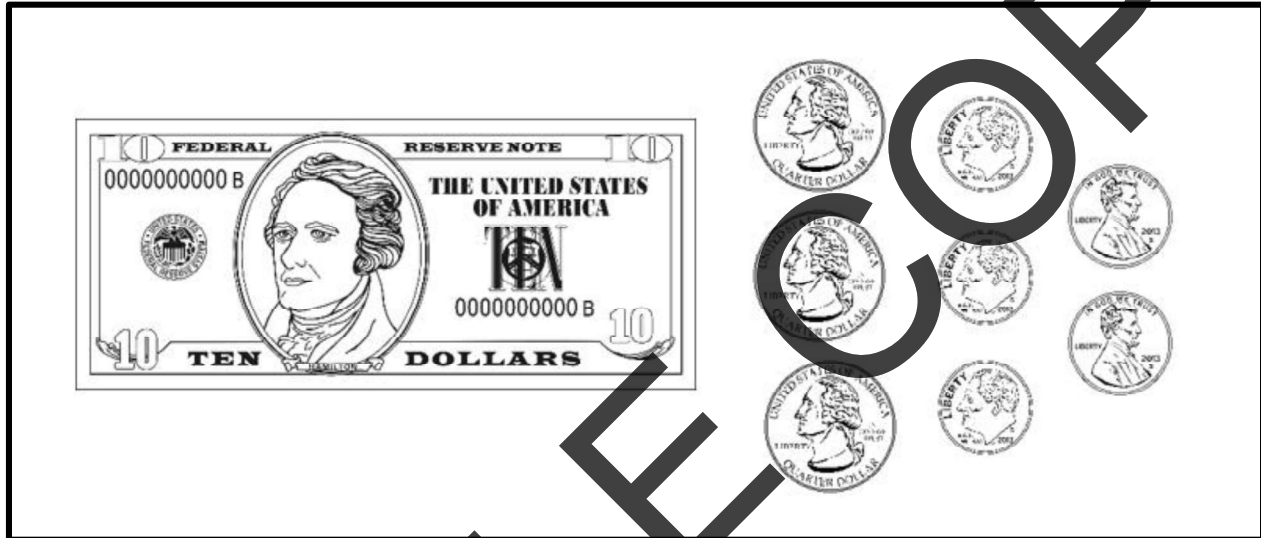
C $\frac{3}{8} < \frac{5}{8}$

D $\frac{5}{3} < \frac{3}{5}$

Spiral 36

1 (3.4C)

Reginald earns money dog walking and finds some change on the ground while he walks the dogs. At the end of the day he has the bills and coins shown.



At the end of the day, how much money does Reginald have?

F \$10.77

G \$11.03

H \$11.07

J \$10.97

2 (3.4B)

Bethany kept a record of the number of miles she drove each day on her vacation.

- Saturday 228 miles
- Sunday 189 miles
- Monday 326 miles
- Tuesday 195 miles

What is the best estimate of the total number of miles Bethany drove on her vacation?

- A** 800
- B** 700
- C** 1,000
- D** 900

3 (3.4D)

Charlie collected seashells and put them into groups of 3 seashells each. Charlie had seven groups of seashells.



How many seashells did Charlie collect?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

Spiral 37

1 (3.5A)

Luz bought 950 bricks to use on her patio. After building a fire pit, she had 325 bricks left.

Which number sentence could NOT be used to determine the number of bricks Luz used to build the fire pit?

A $950 - 325 = \square$

B $325 + \square = 950$

C $950 + 325 = \square$

D $950 - \square = 325$

2 (3.5B)

Izzy has 6 packages of colored tiles with 12 tiles in each package. She arranges all of the tiles into a design with 8 equal rows.

Which number sentence can be used to find the number of tiles in each row?

F $6 \times 12 + 8 = \square$

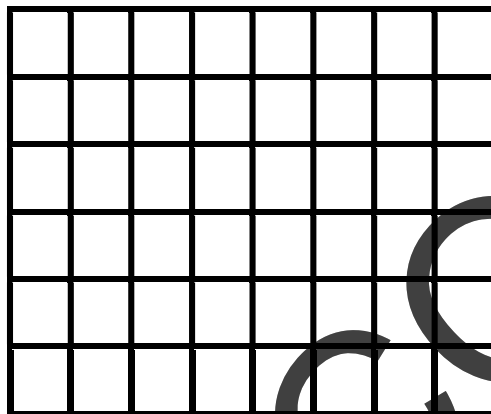
G $6 + 12 + 8 = \square$

H $6 \times 12 \div 8 = \square$

J $6 \times 12 \times 8 = \square$

3 (3.4D)

Claire arranged six rows of chairs with eight chairs in each row. The array represents the chairs Claire arranged.



How many chairs did Claire arrange?

A 63

B 48

C 35

D 54

Spiral 38

1 (3.4D)

Caleb collected acorns as he walked through the park. He arranged the acorns into five groups of seven acorns each.



How many acorns did Caleb collect?

F 25

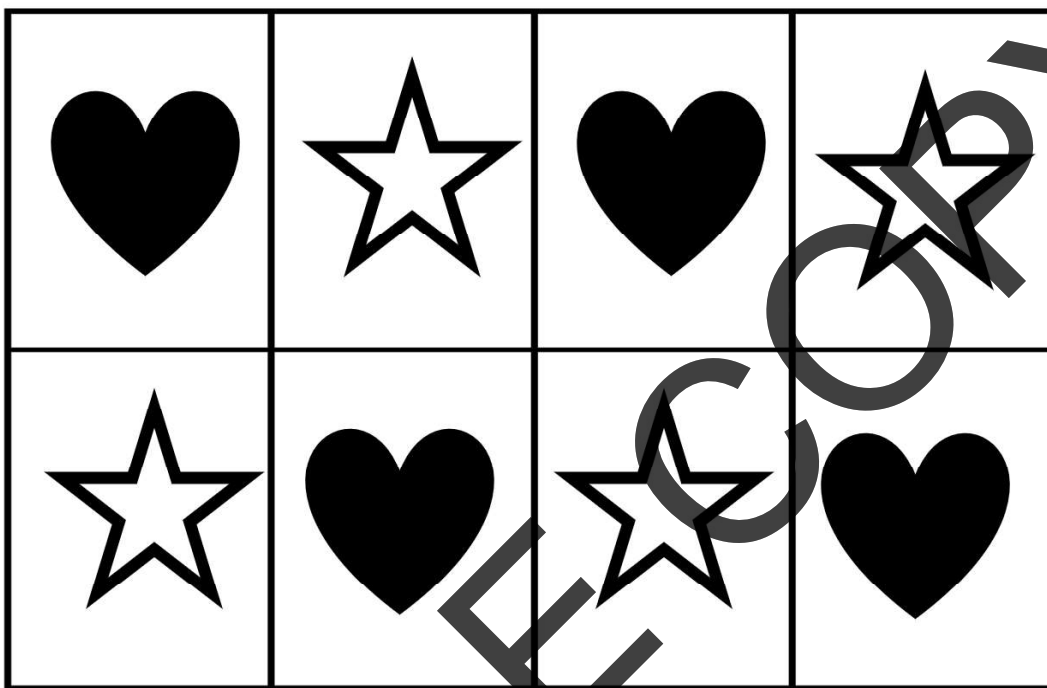
G 45

H 35

J 40

2 (3.3D)

Everly made the quilt shown below.



Which expression represents the fraction of the quilt blocks that Everly decorated with stars?

A $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

B $\frac{4}{8} + \frac{4}{8}$

C $\frac{4}{4} + \frac{4}{4}$

D $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

3 (3.4F)

Santiago and two friends each ate 6 slices of pizza. How many slices of pizza were eaten in all?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

Spiral 39

1 (3.5B)

Lucas bought 6 toy cars for \$2 each and bought a kite for \$9.

Which number sentence can be used to find the total amount Lucas spent for the cards and kite?

A $6 + 2 + 9 = 17$

B $6 \times 2 + 9 = 21$

C $6 \times 2 - 9 = 3$

D $6 \div 2 + 9 = 12$

2 (3.5B)

Evelyn walked 5 miles each day for 15 days. She also biked 12 miles on one of the days.

Which number sentence can be used to find the total number of miles Evelyn walked and biked in 15 days?

F $5 \times 15 - 12 = \square$

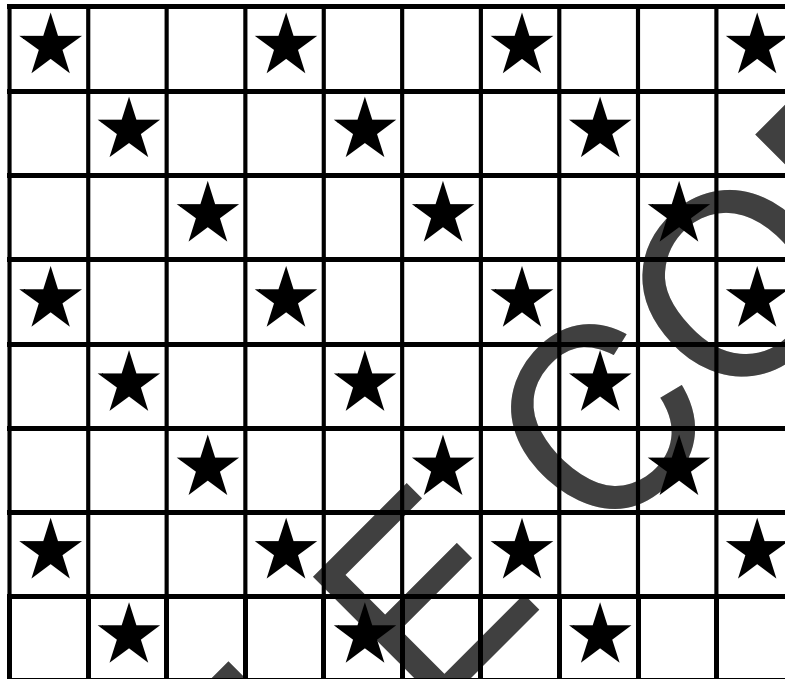
G $5 + 15 + 12 = \square$

H $5 + 15 \times 12 = \square$

J $5 \times 15 + 12 = \square$

3 (3.6C)

Anthony covered a rectangle with square tiles to create a pattern.



What is the total area of Anthony's rectangle in square units?

- A 81 square units
- B 70 square units
- C 72 square units
- D 80 square units

Spiral 40

1 (3.3H)

The strip diagrams are shaded to show two fractions.

0



1

0



1

Based on the models, which statement is true?

F $\frac{2}{3} < \frac{2}{6}$

G $\frac{2}{6} = \frac{2}{3}$

H $\frac{2}{6} > \frac{2}{3}$

J $\frac{2}{3} > \frac{2}{6}$

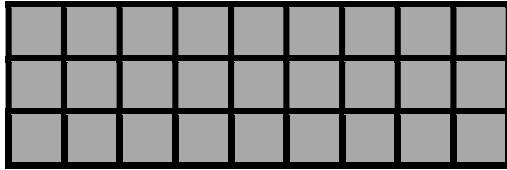
2 (3.4E)

Owen used a model to solve $3 \times 9 = \square$. Which model could Owen use?

A $9 \times 9 \times 9$

B $9 + 9$

C



D $9, 18, 24$

3 (3.5B)

Eight students each bought 3 tickets for a play. Each ticket cost \$4.

Which number sentence can be used to find the total amount the 8 students spent on tickets for the play?

F $8 \times 3 \times 4 = \square$

G $8 \times 3 + 4 = \square$

H $8 \times 3 - 4 = \square$

J $8 + 3 + 4 = \square$

Spiral 41

1 (3.4K)

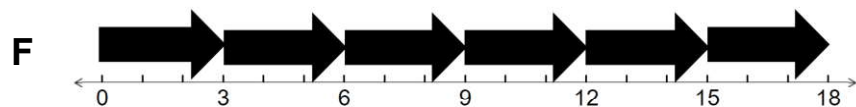
A baseball team ate 32 double scoop ice cream cones. How many scoops of ice cream did the baseball team eat?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

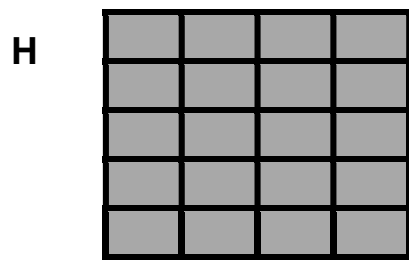
			.
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2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.4E)

Grayson used a model to solve $6 \times 4 = \square$. Which model could Grayson use?



G $4 + 4 + 4 + 4$

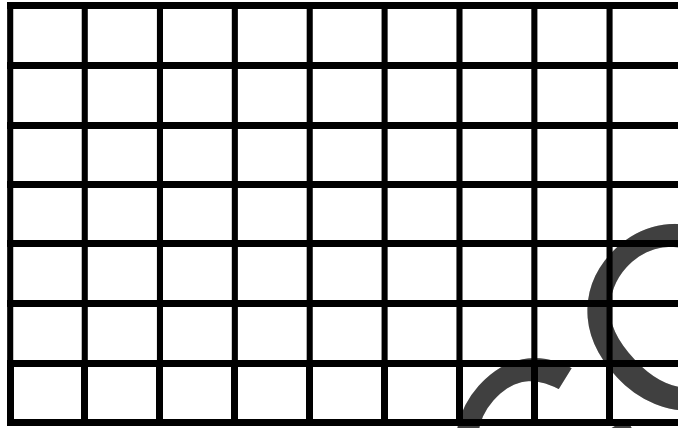


J



3 (3.4D)

The array represents the number of students in the marching band.



How many students are in the marching band?

A 81

B 56

C 54

D 63

Spiral 42

1 (3.3F)

The strip diagram models the fraction $\frac{1}{3}$.

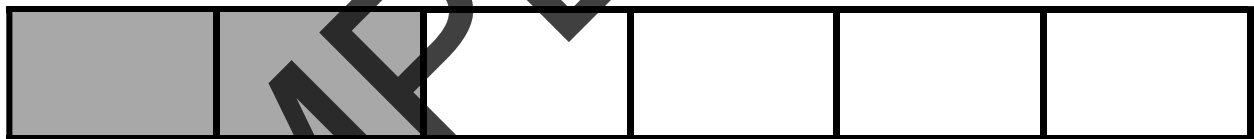


Which strip diagram models a fraction equivalent to $\frac{1}{3}$?

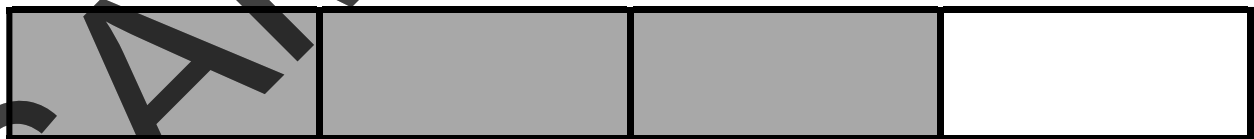
F



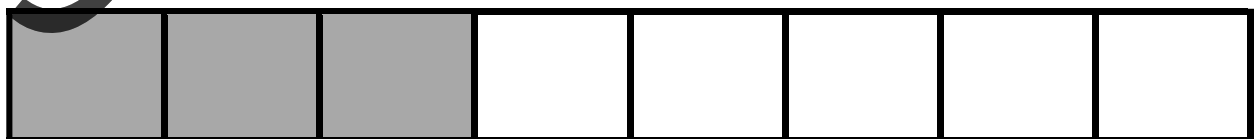
G



H

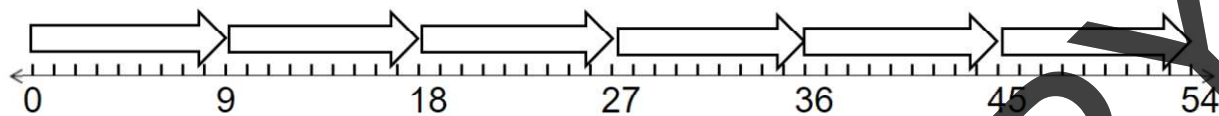


J



2 (3.4E)

Collin used the model below to complete a multiplication fact.



Which problem was Collin solving?

A $6 \times 8 = \square$

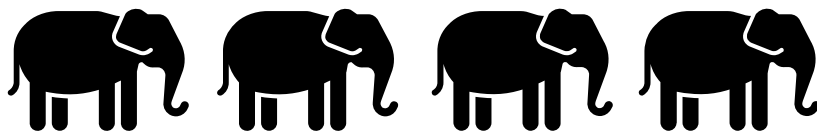
B $6 \times 7 = \square$

C $6 \times 9 = \square$

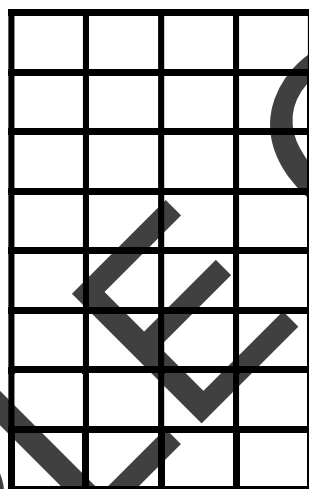
D $9 \times 7 = \square$

3 (3.4D)

The elephants marched into the circus in rows of four.



The array represents the rows of marching elephants



How many elephants marched into the circus?

F 36

G 28

H 30

J 32

Spiral 43

1 (3.4K)

A test had 20 questions. Rocky missed 5 questions. Each question was worth 5 points. What was Rocky's score?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

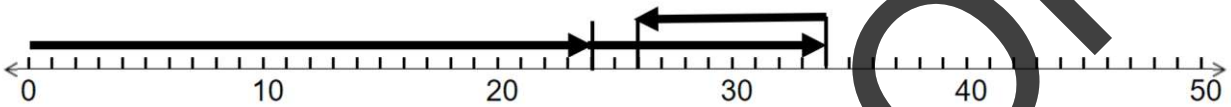
			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.5A)

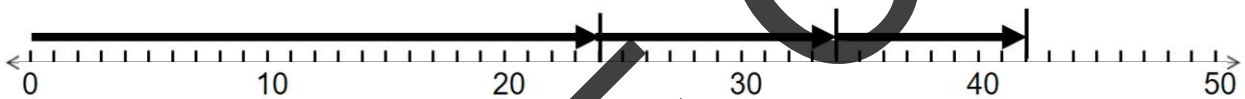
Aiden built 24 birdhouses. He sold 10 at the craft fair. He sold 8 at the farmer's market.

Which number line represents a way to determine the number of birdhouses Aiden has left?

F



G



H



J



3 (3.4K)

Amber rode her bike for 15 miles each day for 6 days. What was the total distance Amber rode?

A 80 miles

B 21 miles

C 90 miles

D 45 miles

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Spiral 44

1 (3.4K)

Bianca put together 12 bags of party treats with 8 pieces of gum in each bag. How many pieces of gum did Bianca use?

F 88

G 92

H 20

J 96

2 (3.5B)

Lauren places 54 cookies equally into 9 storage bags. Each cookie has 10 chocolate chips.

Which number sentence can be used to find the total number of chocolate chips in the cookies in each storage bag?

A $54 \div 9 \times 10 = \square$

B $54 \div 9 + 10 = \square$

C $54 \times 9 + 10 = \square$

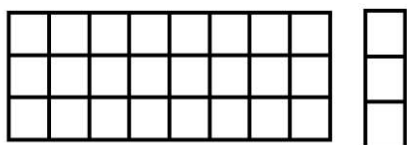
D $54 + 9 + 10 = \square$

3 (3.5B)

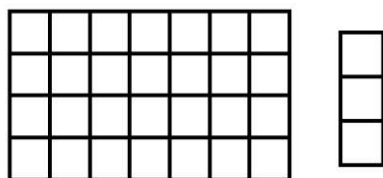
A meeting room has 4 rows with 8 chairs on each row. There are three extra chairs for speakers and guests.

Which model best represents all of the chairs in the meeting room?

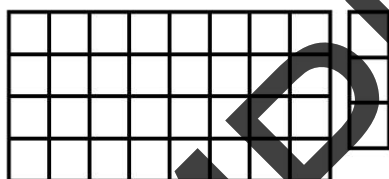
F



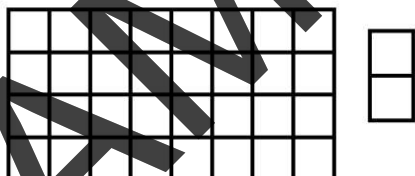
G



H



J



Spiral 45

1 (3.4K)

Jason has 48 t-shirts to stack equally into 3 stacks. How many t-shirts will Jason put in each stack?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.2A)

Which of these describes the number 40,020?

F the sum of four ten thousands and two hundreds

G the sum of forty thousands and two ones

H the sum of four thousands and two tens

J the sum of forty thousands and two tens

3 (3.5B)

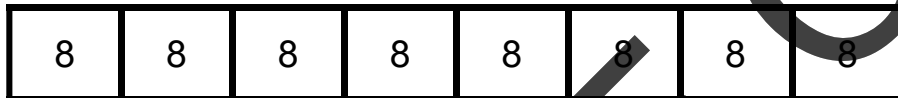
Andrew bought 8 packs of gum with 5 pieces of gum in each pack. He gave his friend, Joseph, 2 packs of the gum.

Which diagram can be used to determine how much gum Andrew has left?

A



B



C



D



Spiral 46

1 (3.4A)

George made a schedule to train for a triathlon. He set miles to train each month for each part of the race.

- Bike 300 miles
- Run 150 miles
- Swim 90 miles

So far this month George has completed 368 miles of training. How many more miles does George need this month to stick with his plan?

F 540

G 908

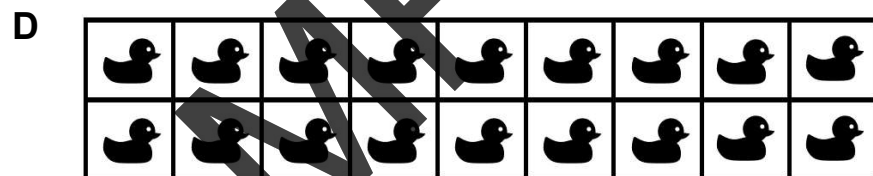
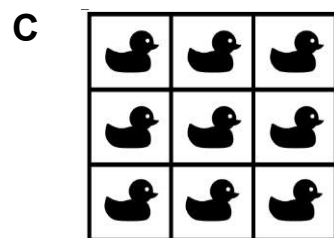
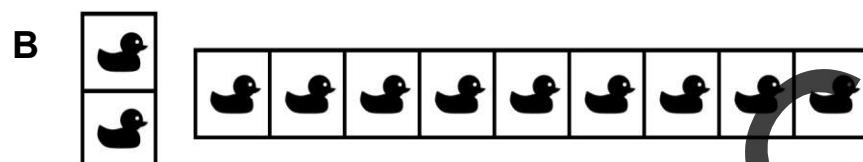
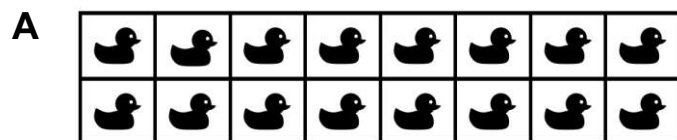
H 202

J 172

2 (3.5B)

Eighteen ducklings swam in two rows even rows.

Which model can be used to find the number of ducklings in each row?



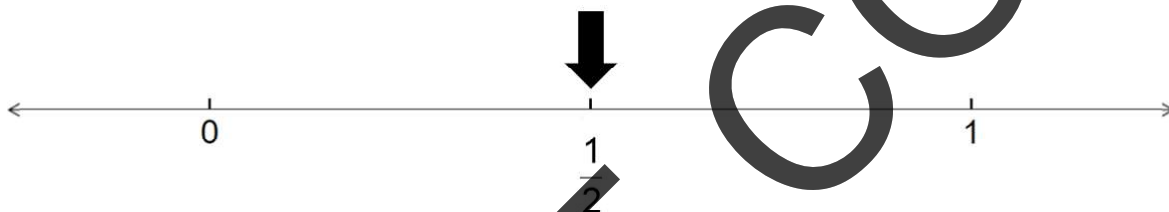
3 (3.3F)

An arrow marks $\frac{1}{3}$ on a number line.

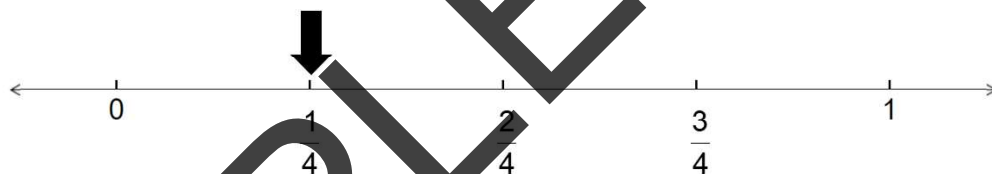


Which of these number lines shows a fraction equivalent to $\frac{1}{3}$ marked with an arrow?

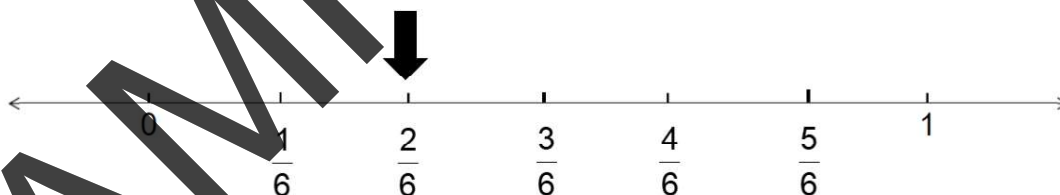
F



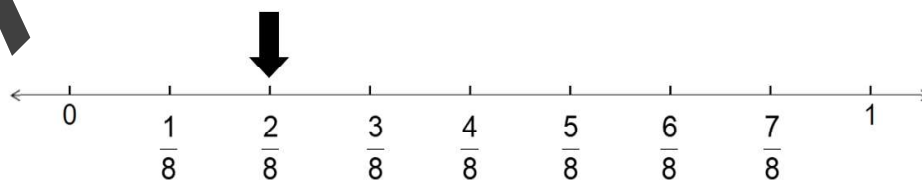
G



H



J



Spiral 47

1 (3.4K)

Quintin divided 84 marbles into 7 equal groups. How many marbles did Quintin put in each group?

A 11

B 12

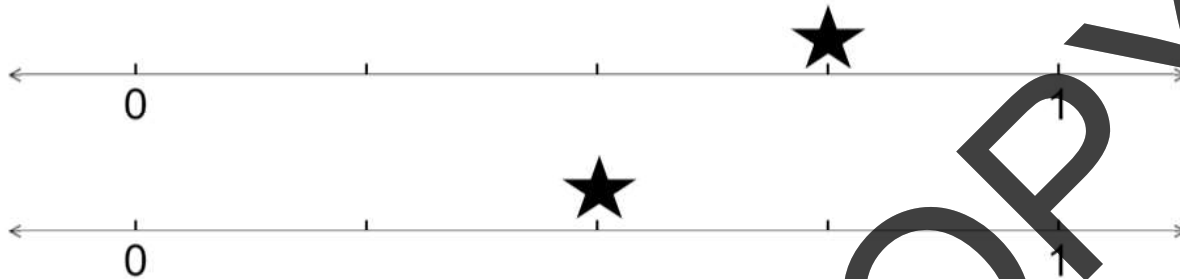
C 588

D 14

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2 (3.3H)

The number lines model two different fractions.



Which comparison of these fractions is true?

F $\frac{2}{3} > \frac{3}{4}$, because 3 is greater than 4.

G $\frac{3}{4} = \frac{2}{3}$, because three parts of four and two parts of three are the same amount.

H $\frac{2}{3} < \frac{3}{4}$, because two parts of three is less than three parts of four.

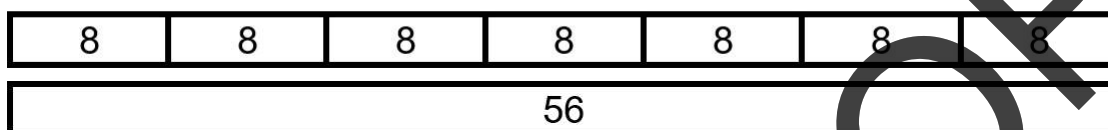
J $\frac{2}{4} < \frac{3}{4}$, because they have the same denominator, and two is less than three.

3 (3.5B)

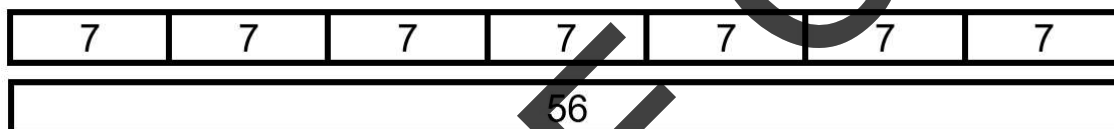
Isabelle spent \$56 on 7 yards of fabric.

Which diagram can be used to determine the amount she paid for each yard?

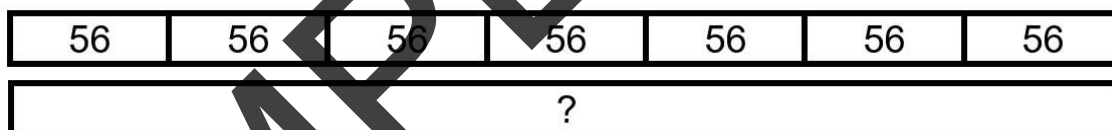
A



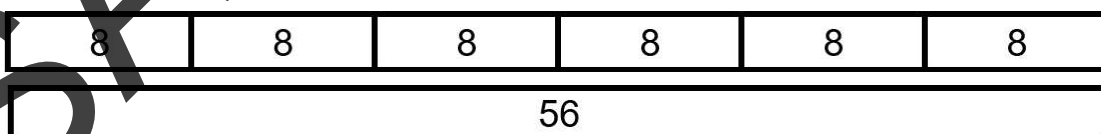
B



C



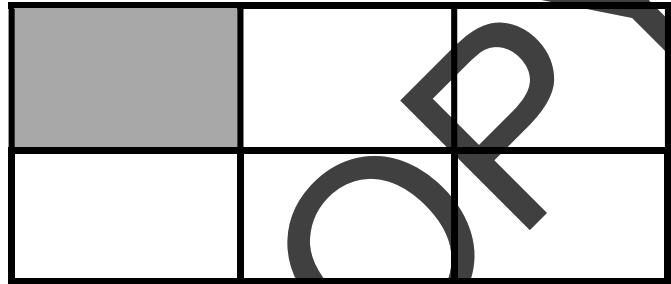
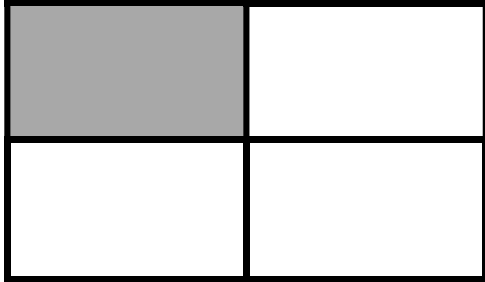
D



Spiral 48

1 (3.3G)

The model represents two fractions



Which statement about the two fractions is correct?

F The two fractions are equivalent, because the shaded parts of each whole are the same size.

G The two fractions are not equivalent, because the shaded amounts are not the same.

H The two fractions are not equivalent, because the wholes are not the same.

J The two fractions are equivalent, because one part of each whole is shaded.

2 (3.4F)

Mateo had 49 toy cars. He placed them in rows of 7 cars each. How many cars were in each row?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

3 (3.4H)

Fifty-four students marched in the band. They marched in 6 even rows. The marks represent all of the band students.

XXXXXXXXXXXXXX

XXXXXXXXXXXXXX

XXXXXXXXXXXXXX

XXXXXXXXXXXXXX

XXXXXXXXXXXXXX

How many students marched in each row?

F 8, because $54 \div 6 = 8$

G 7, because $54 \div 6 = 7$

H 9, because $54 \div 6 = 9$

J 11, because $54 \div 6 = 11$

Spiral 49

1 (3.4K)

Mr. George plans to hike 68 miles. He plans to hike the same number of miles each day for 4 days. How far will Mr. George hike each day?

A 272

B 18

C 17

D 72

2 (3.4H)

Marquise cut out 45 stars and placed the same number on each of 3 posters. The picture shows the total number of stars.



How many stars did Marquise place on each poster?

F 15, because $45 \div 3 = 15$

G 18, because $45 \div 3 = 18$

H 12, because $45 \div 3 = 12$

J 16, because $45 \div 3 = 16$

3 (3.4K)

Ellison bought 7 tickets for the school play. Demarcus bought 5 tickets. Each ticket cost \$8. How much did the two students spend on tickets?

A \$56

B \$96

C \$20

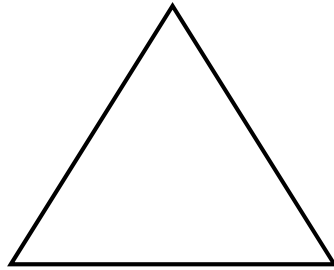
D \$86

SAMPLE COPY

Spiral 50

1 (3.7B)

The triangle has a perimeter of 27 centimeters.



If each side of the triangle is the same length, what is the length of each side?

F 7 centimeters

G 9 centimeters

H 12 centimeters

J 8 centimeters

2 (3.4G)

For a school party, students brought 9 dozen donuts. How many donuts were brought to the party?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
① 0	① 0	① 0	
① 1	① 1	① 1	
① 2	① 2	① 2	
① 3	① 3	① 3	
① 4	① 4	① 4	
① 5	① 5	① 5	
① 6	① 6	① 6	
① 7	① 7	① 7	
① 8	① 8	① 8	
① 9	① 9	① 9	

3 (3.4G)

There were 26 students in each of 7 third-grade classes. What is the total number of third-grade students?

F 33

G 164

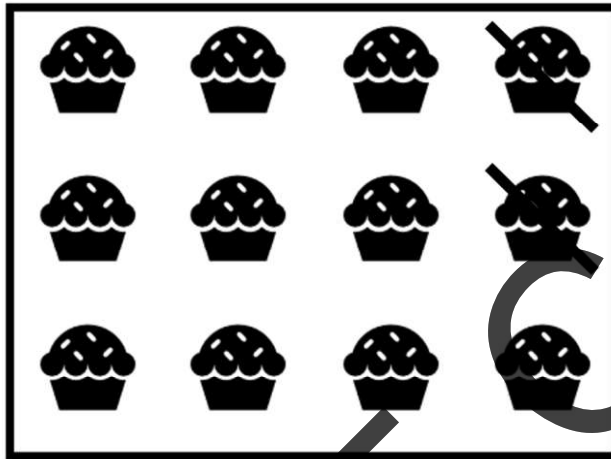
H 182

J 152

Spiral 51

1 (3.5B)

Ashley baked cupcakes. The model represents the cupcakes Ashley baked.

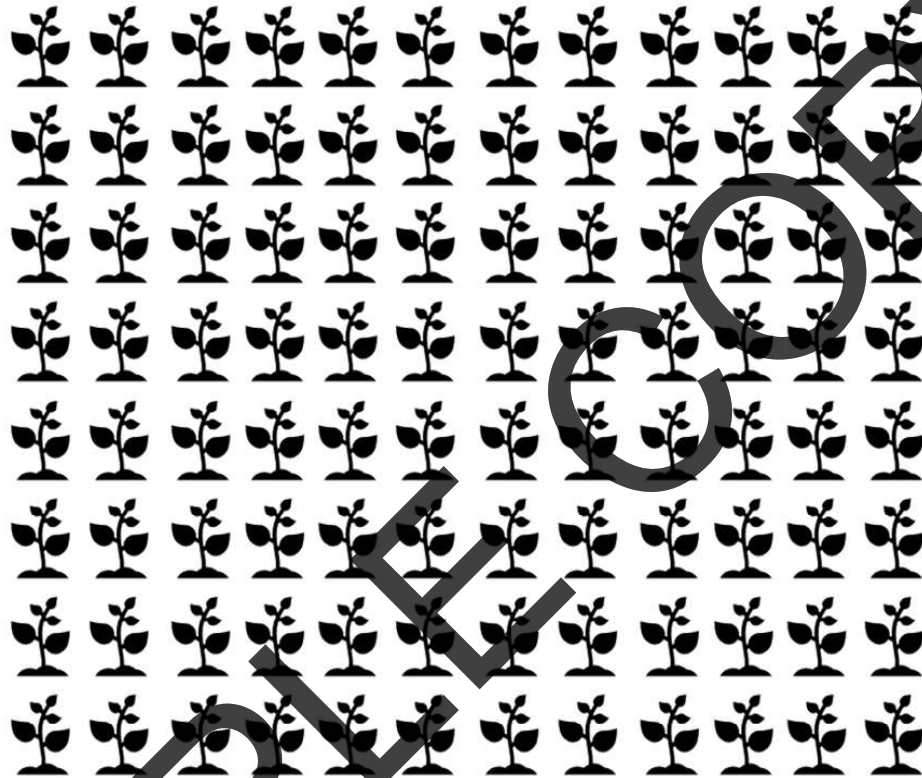


Based on the model, what did Ashley do with the cupcakes?

- A** Ashley baked three rows of four cupcakes each. She made two extra cupcakes in another pan.
- B** Ashley baked 10 cupcakes and ate two of them.
- C** Ashley baked three rows of four cupcakes each. She gave two cupcakes to her friend Carla.
- D** Ashley baked two rows of six cupcakes each.

2 (3.4K)

A gardener plans to plant 96 tomato plants equally in 4 garden rows. How many plants will the gardener plant in each row?



F 22

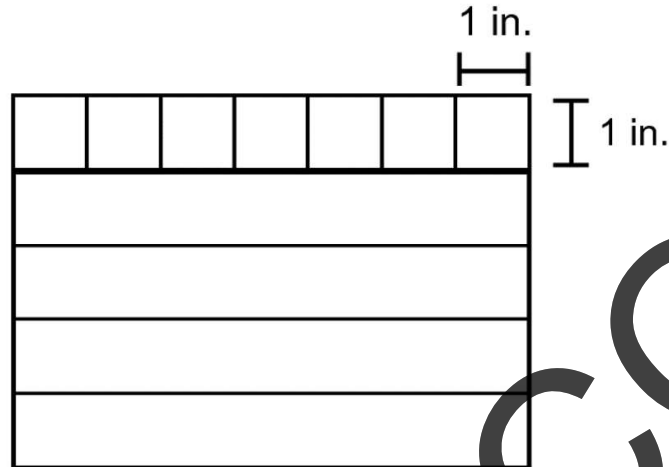
G 100

H 92

J 24

3 (3.6C)

Bethany covered a rectangle with square tiles. Each tile has an area of one square inch. Some of the tiles are shown.



What is the area of the rectangle in square inches?

- A** 35 square inches
- B** 28 square inches
- C** 40 square inches
- D** 11 square inches

Spiral 52

1 (3.4G)

On a field trip 7 buses filled with 48 students each went to the zoo. What is the total number of students on the 7 buses?

F 276

G 345

H 296

J 336

2 (3.4J)

Coach divides a group of 28 third-graders into 4 equal teams.

How many third-graders does he put on each team?

A 32, because $28 + 4 = 32$

B 24, because $28 - 4 = 24$

C 7, because $4 \times 7 = 28$

D 112, because $28 \times 4 = 112$

3 (3.7B)

Britton knows that one side of the square equals 15 inches.



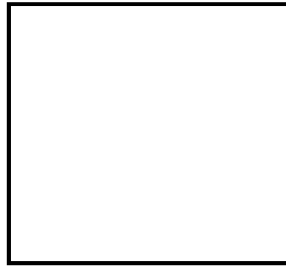
How can he find the perimeter of the square in inches?

- F** Add 15 and 15 to get a perimeter of 30 inches.
- G** Multiply 15 times 4 to get a perimeter of 60 inches.
- H** Multiply 15 times 2 to get a perimeter of 30 inches.
- J** Add 15 plus 15 plus 15 to get a perimeter of 45 inches.

Spiral 53

1 (3.7B)

Tom knows that the perimeter of the square is 12 centimeters.



How can he find the length of one side of the square in centimeters?

- A $12 \times 3 = 36$ centimeters
- B $12 + 3 = 15$ centimeters
- C $12 \div 4 = 3$ centimeters
- D $12 - 3 = 4$ centimeters

2 (3.4K)

Baxter bought 5 cans of peaches and 8 cans of pears. He paid \$2 for each can. How much did Baxter spend for the fruit in dollars?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
① 0	① 0	① 0	
① 1	① 1	① 1	
① 2	① 2	① 2	
① 3	① 3	① 3	
① 4	① 4	① 4	
① 5	① 5	① 5	
① 6	① 6	① 6	
① 7	① 7	① 7	
① 8	① 8	① 8	
① 9	① 9	① 9	

3 (3.4I)

Which statement about the number 47 is true?

- A** It is even, because the digit in the ones place is even.
- B** It is odd, because it cannot be divided by 2 evenly.
- C** It is odd, because it cannot be arranged into five equal groups.
- D** It is even, because the digit in the tens place is even.

Spiral 54

1 (3.6C)

The floor in Bailey's room is covered in square tiles. The area of each tile is one square foot. She counts 15 rows of 9 tiles each.

What is the area of the floor in Bailey's room?

F 135 square feet

G 125 square feet

H 145 square feet

J 25 square feet

2 (3.4H)

Caroline has 48 heart stickers. All of Caroline's stickers are shown.



If Caroline puts the same number of heart stickers on each of 8 pages in her sticker album, how many stickers does she put on each page?

A 7, because $48 \div 8 = 7$

B 9, because $48 \div 8 = 9$

C 8, because $48 \div 8 = 8$

D 6, because $48 \div 8 = 6$

3 (3.4G)

The marching band lined up in 4 rows with 32 students on each row. How many students were in the marching band?

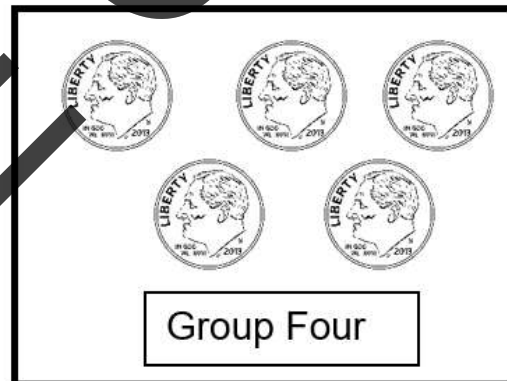
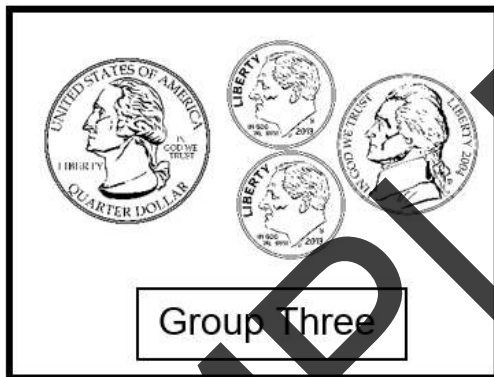
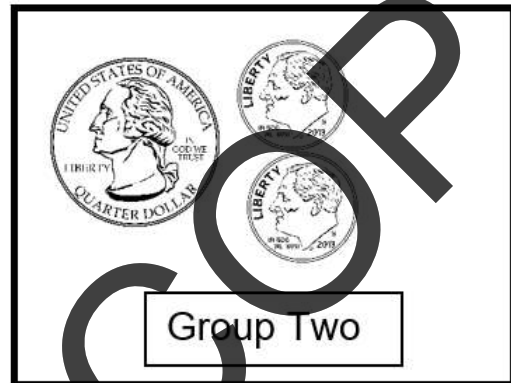
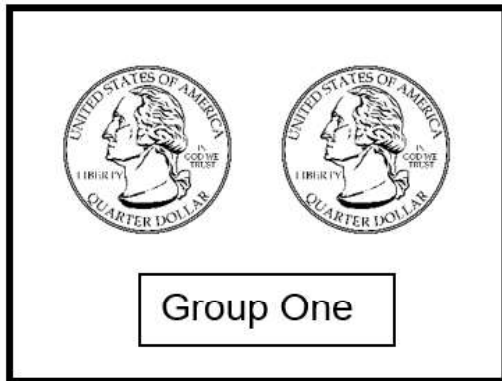
Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

Spiral 55

1 (3.4C)

Four groups of coins are shown.

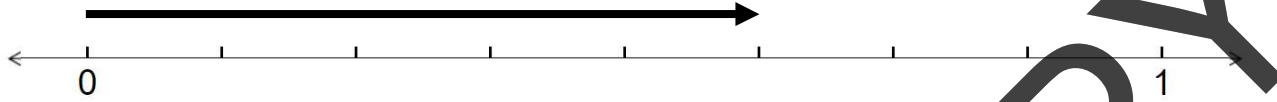


Which groups have the same value?

- A** Group One and Group Two only
- B** Group One, Group Three, and Group Four
- C** Group Two, Group Three, and Group Four
- D** Group One and Group Four only

2 (3.3B)

A fraction is shown on the number line below.



What fraction is shown on the number line?

F $\frac{5}{8}$

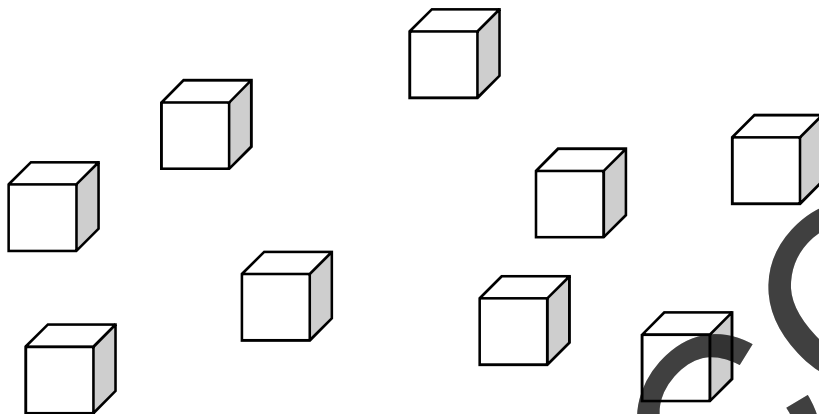
G $\frac{8}{5}$

H $\frac{5}{3}$

J $\frac{4}{5}$

3 (3.4I)

Shaylee placed a handful of cubes on her desk.



Which statement about the cubes is true?

- A** The number of cubes is odd, because they cannot be divided into two equal groups.
- B** The number of cubes is odd, because they can be divided into three groups of three.
- C** The number of cubes is even, because they can be divided into two equal groups.
- D** The number of cubes is even, because they can be divided evenly by three.

Spiral 56

1 (3.4I)

Bakari counted the number of hummingbirds that came to his feeder in one afternoon.



Which statement about the number of hummingbirds is true?

- F** The number is even, because each bird has two wings.
- G** The number is odd, because birds always travel in odd numbers.
- H** The number is even, because the number can be divided evenly by 2.
- J** The number is odd, because the digit in the tens place is odd.

2 (3.4K)

Charlene bought 9 gallons of gas on Monday and 8 gallons on Thursday. She spent \$3 per gallon. How much did Charlene spend on gas?

- A** \$72
- B** \$33
- C** \$35
- D** \$51

3 (3.5C)

Ava received \$20 for her eighth birthday. This expression can be used to show the amount of money she received for her ninth birthday.

$$3 \times 20$$

Which statement is true?

- F** Ava received three times as much money for her eighth birthday as she did for her ninth birthday.
- G** Ava received twice as much for her ninth birthday as she did for her eighth.
- H** Ava received three times as much money for her ninth birthday as she did for her eighth birthday.
- J** Ava received \$3 more for her ninth birthday than she did for her eighth birthday.

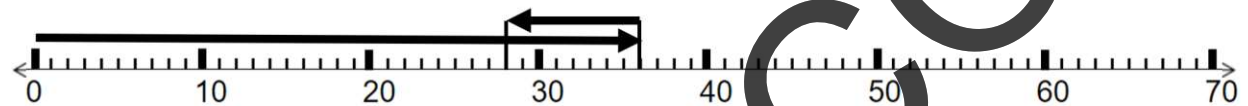
Spiral 57

1 (3.5A)

Charlotte has 36 charms on her charm bracelet. She has some taken off to put on a necklace. After taking some off, she has 28 charms left on the bracelet.

Which number line represents a way to determine the number of charms Charlotte removed from the bracelet?

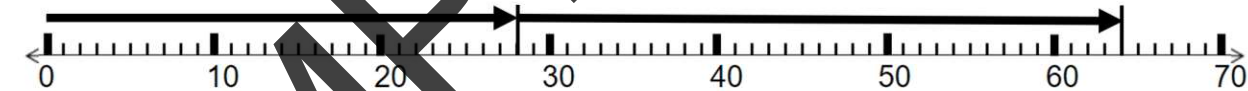
A



B



C

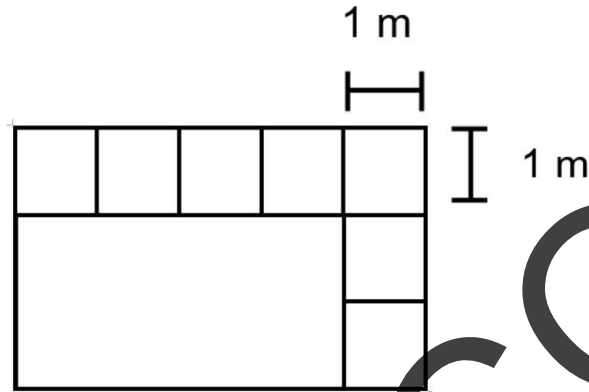


D



2 (3.6C)

Mr. Sanchez divides his garden into 1-meter square sections. Some of the sections are shown.

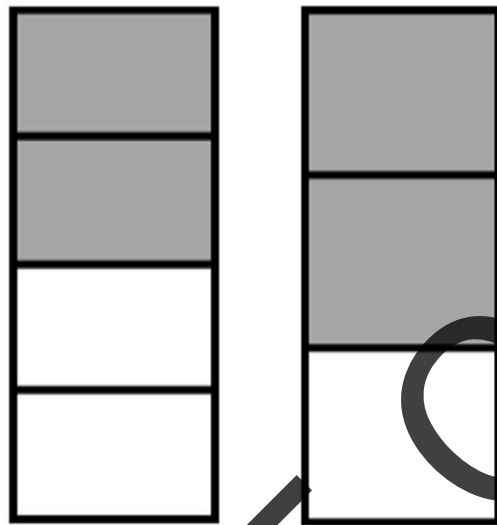


What is the area of Mr. Sanchez garden in square meters?

- F** 12 square meters
- G** 15 square meters
- H** 10 square meters
- J** 18 square meters

3 (3.3H)

The models shown are the same size and are each divided into equal parts. The models are shaded to show two fractions.



Based on the models, which statement is true?

A $\frac{2}{3} > \frac{3}{4}$, because 3 is greater than 4.

B $\frac{2}{4} = \frac{2}{3}$, because two equals two.

C $\frac{2}{4} > \frac{2}{3}$, because two parts of four is greater than two parts of three.

D $\frac{2}{4} < \frac{2}{3}$, because fourths are smaller than thirds.

Spiral 58

1 (3.5C)

Darius has 18 miniature cars. This expression can be used to show the number of miniature cars Tyler has.

$$18 \times 2$$

Which statement is NOT true?

F Tyler has twice as many miniature cars as Darius.

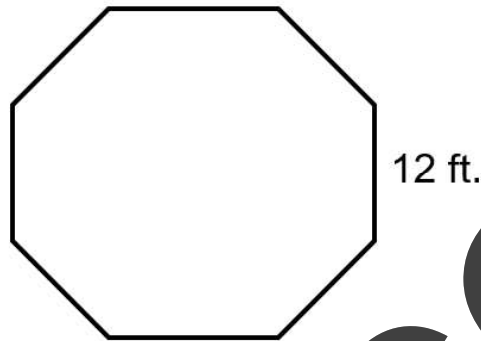
G Tyler has half as many miniature cars as Darius.

H The number of miniature cars Tyler has is two times as many miniature cars as Darius has.

J Tyler has double the number of miniature cars as Darius.

2 (3.7B)

The fountain in the city park is shaped like an octagon. All of the sides are congruent.



What is the perimeter of the fountain in feet?

A 72 feet

B 144 feet

C 96 feet

D 120 feet

3 (3.4J)

There are 56 cookies in 8 equal rows on a baking sheet. There are the same number of cookies on each row.

Which equation can be used to find the number of bicycles in each row?

F $7 \times 8 = 56$

G $56 + 8 = 64$

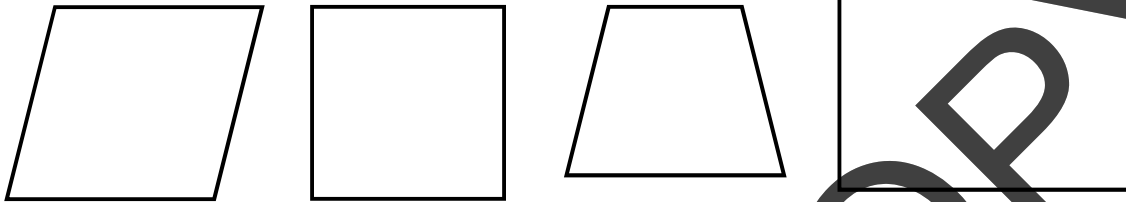
H $56 - 8 = 48$

J $8 + 48 = 56$

Spiral 59

1 (3.6A)

A group of shapes is shown.



Which statement is true?

- A** All of the shapes are quadrilaterals.
- B** Only 3 of the shapes are quadrilaterals.
- C** None of the shapes are quadrilaterals.
- D** Only 2 of the shapes are quadrilaterals.

2 (3.4J)

Bethany has 24 t-shirts that she arranges on 3 shelves. She puts the same number of t-shirts on each shelf.

Which equation can be used to find the number of t-shirts on each shelf?

- F** $24 \div 6 = 4$
- G** $3 \times 8 = 24$
- H** $24 \times 3 = 72$
- J** $24 + 8 = 32$

3 (3.5E)

Students played a math game. For each number they rolled with a number cube, they added 8.

Which table shows number pairs that follow this rule?

A

Number Rolled	New Number
2	10
3	11
5	13
6	14

B

Number Rolled	New Number
1	9
3	27
4	36
6	54

C

Number Rolled	New Number
12	4
10	2
9	1
8	0

D

Number Rolled	New Number
2	16
3	24
4	32
6	48

Spiral 60

1 (3.5E)

A rental company charges a \$50 late fee on items not returned on the day they are due.

Which table shows the correct relationship between the original rental amount and the amount owed with the late fee?

F Rental Fees

Original Charge	\$125	\$140	\$180	\$205
Late Charge	\$150	\$165	\$205	\$230

G Rental Fees

Original Charge	\$125	\$220	\$280	\$500
Late Charge	\$75	\$170	\$230	\$450

H Rental Fees

Original Charge	\$80	\$90	\$125	\$500
Late Charge	\$130	\$150	\$200	\$650

J Rental Fees

Original Charge	\$135	\$225	\$300	\$460
Late Charge	\$185	\$275	\$350	\$510

2 (3.5D)

What number goes in the to make the equation true?

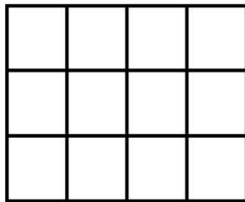
$$15 \times \square = 75$$

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
① 0	① 0	① 0	
① 1	① 1	① 1	
① 2	① 2	① 2	
① 3	① 3	① 3	
① 4	① 4	① 4	
① 5	① 5	① 5	
① 6	① 6	① 6	
① 7	① 7	① 7	
① 8	① 8	① 8	
① 9	① 9	① 9	

3 (3.6C)

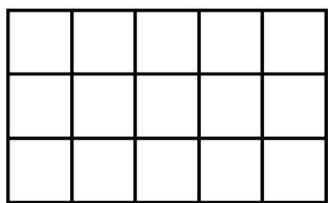
Five rectangles are shown. Each rectangle is covered in square unit tiles.



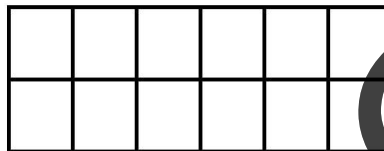
Rectangle 1



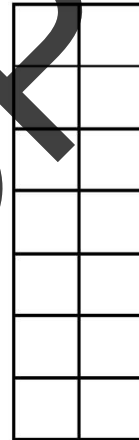
Rectangle 2



Rectangle 3



Rectangle 4



Rectangle 5

Which of these rectangles have an area of 12 square units?

F All, except Rectangle 5

G Rectangle 1 and Rectangle 5

H Rectangle 1, Rectangle 2, and Rectangle 4

J None

Spiral 61

1 (3.5E)

A coupon saves shoppers \$10 off any purchase over \$40.

Which table shows the correct relationship between the amount owed without the coupon and the amount paid with the coupon?

A

Coupon Savings

Original Price	Price with Coupon
\$50	\$40
\$70	\$50
\$95	\$75
\$140	\$110

B

Coupon Savings

Original Price	Price with Coupon
\$41	\$36
\$52	\$47
\$84	\$79
\$150	\$145

C

Coupon Savings

Original Price	Price with Coupon
\$45	\$35
\$60	\$50
\$79	\$69
\$122	\$112

D

Coupon Savings

Original Price	Price with Coupon
\$50	\$60
\$72	\$82
\$88	\$98
\$135	\$145

2 (3.5D)

For which equation could 3 go in the to make the equation true?

F $72 \div \square = 24$

G $12 \times \square = 33$

H $\square \times 9 = 54$

J $29 \div 9 = \square$

SAMPLE COPY

3 (3.5E)

A cake recipe calls for 4 eggs to make one cake.

Which table shows the correct relationship between the number of cakes baked and the number of eggs used?

A Eggs

Cakes Baked	6	8	9	21
Eggs Used	24	32	36	84

B Eggs

Cakes Baked	3	9	14	22
Eggs Used	7	13	18	26

C Eggs

Cakes Baked	12	16	24	32
Eggs Used	3	4	6	4

D Eggs

Cakes Baked	8	12	22	30
Eggs Used	24	36	66	90

Spiral 62

1 (3.4I)

Elena counted 87 red cars on her trip to Dallas. Which statement about this number is true?

F The number is odd, because $8 + 7 = 15$, and 15 is an odd number.

G The number is even, because the digit in the tens place is even.

H The number is even, because it can be divided evenly by two.

J The number is odd, because it cannot be divided evenly by two.

2 (3.5E)

A bag of colored marbles contains 9 fewer green marbles than blue marbles.

Which table shows this relationship between the blue and green marbles?

A Marbles

Blue	11	13	28	40
Green	20	22	37	49

B Marbles

Blue	12	18	24	42
Green	3	9	15	33

C Marbles

Blue	2	5	8	12
Green	18	45	72	108

D Marbles

Blue	18	20	22	24
Green	9	10	11	12

3 (3.4C)

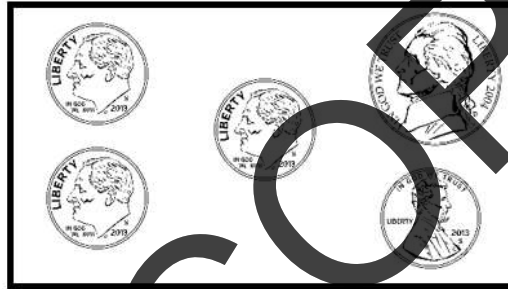
Melissa has \$1.31. She has a one-dollar bill and some coins.

Which could be the coins Melissa has?

F



G



H



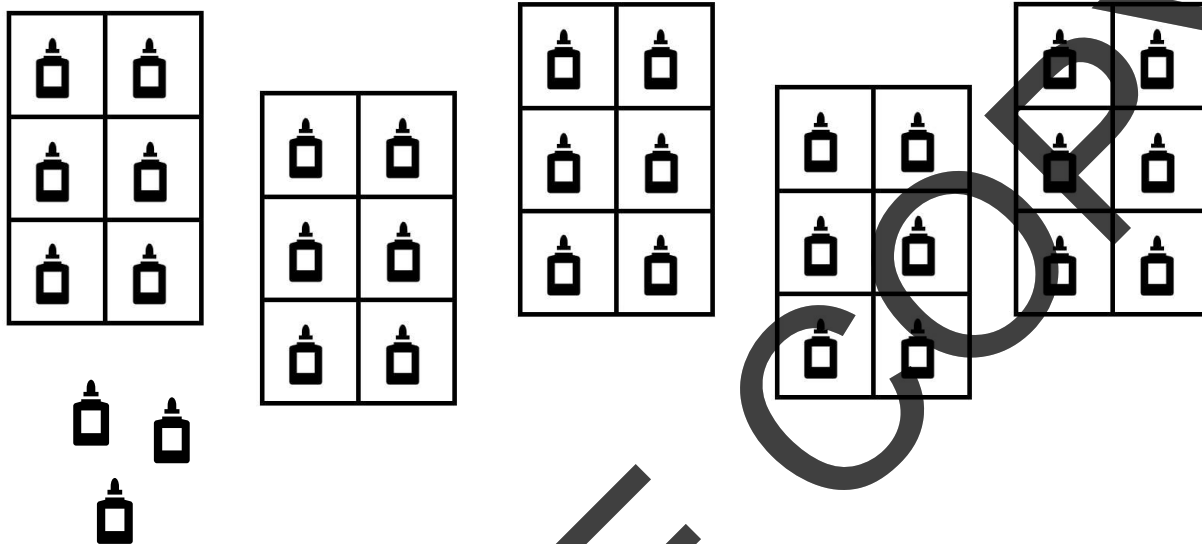
J



Spiral 63

1 (3.5B)

A teacher ordered glue for her classroom.



Based on the model, what best describes what the teacher bought?

- A** The teacher bought 5 packages of glue with 6 bottles of glue in each package. She put the glue in the closet with 3 bottles left from last year. She has a total of 33 bottles of glue.
- B** The teacher bought 5 packages of glue and put them in the closet with 3 bottles of glue left from last year. She has a total of 8 bottles of glue.
- C** The teacher bought 5 packages of glue with 6 bottles of glue in each package. She gave three bottles to the teacher next door, and now has 27 bottles of glue.
- D** The teacher bought 5 packages of glue with 6 bottles of glue in each package. She now has a total of 30 bottles of glue.

2 (3.5E)

The table shows the amount owed for groceries before and after a delivery charge.

Grocery Charges

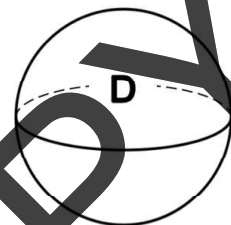
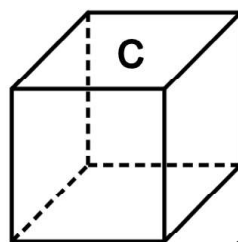
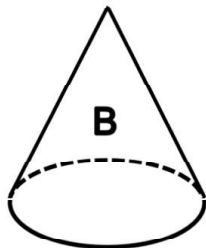
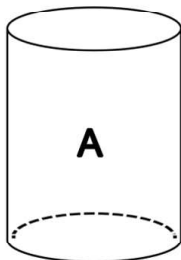
Original Price	Price with Delivery
\$120	\$135
\$136	\$151
\$212	\$227
\$241	\$256

What is the relationship shown in the table?

- F** The price with delivery is 3 times the original price.
- G** The price with delivery is \$15 less than the original price.
- H** The price with delivery is \$15 more than the original price.
- J** The original price is \$15 more than the price with delivery.

3 (3.6A)

A group of shapes is shown.



Which of the shapes are cones?

A All of them are cones.

B Only Shape B is a cone.

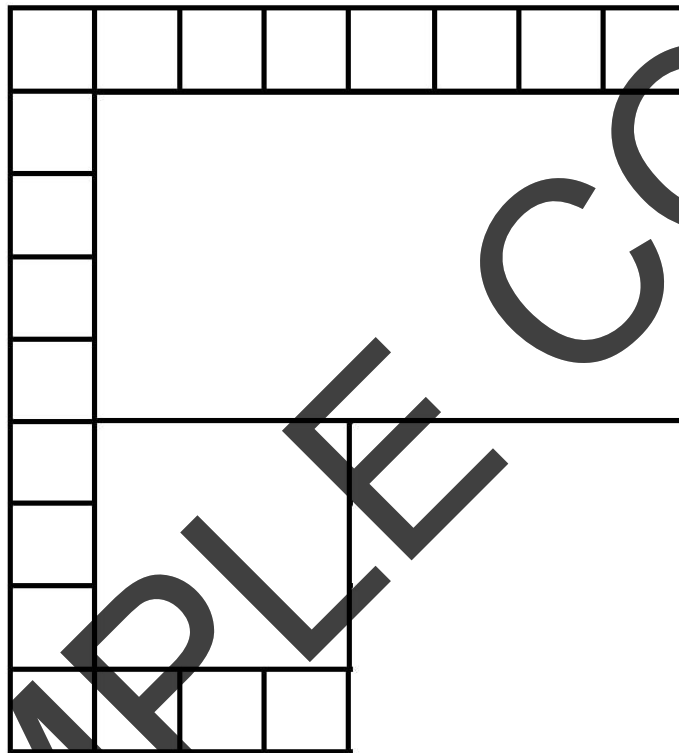
C All, except Shape C, are cones.

D None of them are cones.

Spiral 64

1 (3.6D)

A square closet is located next to a rectangular office. The floors of both rooms are covered in square tiles. Each tile has an area of 1 square foot. Part of the tiles are shown.



What is the total floor area of both rooms in square feet?

F 56 square feet

G 64 square feet

H 54 square feet

J 26 square feet

2 (3.4A)

Liam kept a record of the number of chocolate donuts he sold each day of the weekend in his donut shop.

- Friday 268
- Saturday 322
- Sunday 219

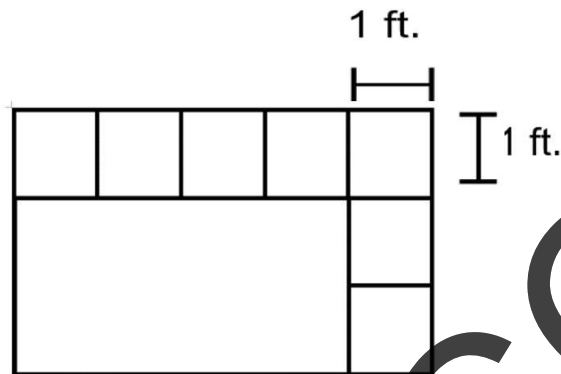
How many chocolate donuts were sold over those three days?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

3 (3.6C)

Armando covers a rectangular closet floor with square tiles. Each tile has an area of one square foot. Some of the tiles are shown.



What is the area of the closet floor in square feet?

F 12 square feet

G 15 square feet

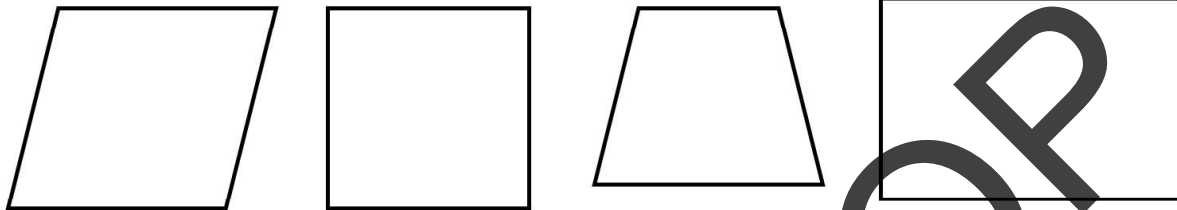
H 20 square feet

J 18 square feet

Spiral 65

1 (3.6A)

A group of shapes is shown.

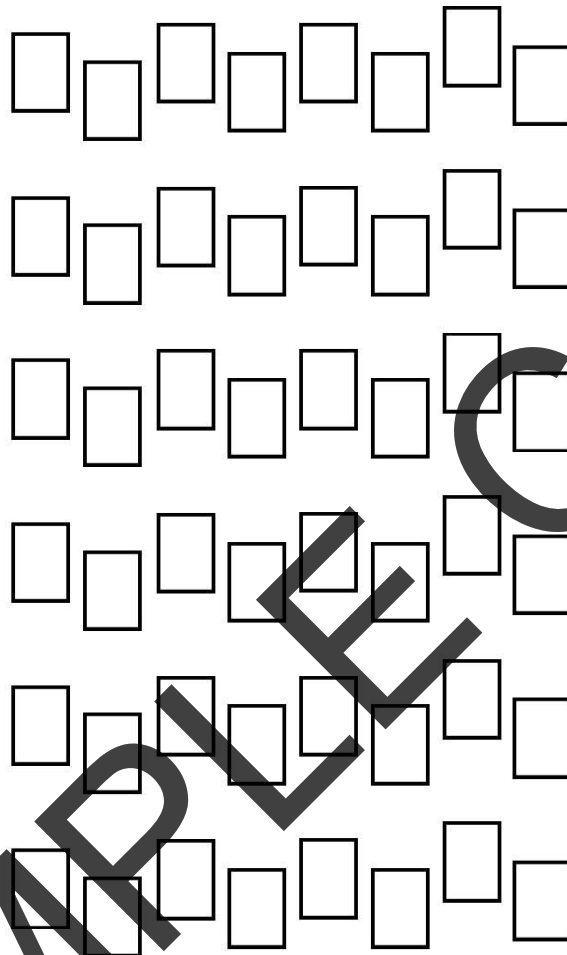


Which statement is true?

- A** All of the sides on all of the shapes are congruent.
- B** None of the shapes are quadrilaterals.
- C** All of the shapes each have 4 vertices.
- D** All of the shapes are trapezoids.

2 (3.4H)

A card game has 48 cards. The picture shows the total number of cards.



If 3 students divided the cards evenly, how many cards does each student get?

F 16

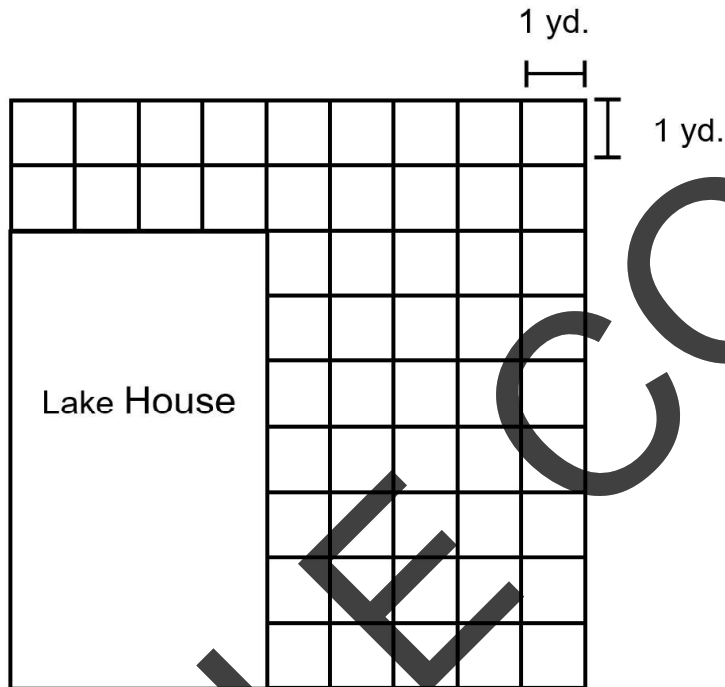
G 24

H 8

J 12

3 (3.6D)

A deck is built around two sides of a lake house. The deck is shown covered in squares with an area of 1 square yard each.



What is the total area of the deck in square yards?

- A** 81 square yards
- B** 45 square yards
- C** 78 square yards
- D** 53 square yards

Spiral 66

1 (3.2A)

Which of these describes the number 20,002?

F the sum of two thousands and two ones

G the sum of twenty thousands and two ones

H the sum of twenty thousands and two tens

J the sum of two ten thousands and two hundreds

2 (3.5C)

Akeem earned 45 points in a game. This expression can be used to show the number of points Burl earned in the game.

$$45 \times 4$$

Which statement is true?

A Akeem earned four times as many points as Burl.

B Akeem earned 4 times as much as 45.

C Burl earned four times as many points as Akeem.

D Burl earned 4 more points than Akeem.

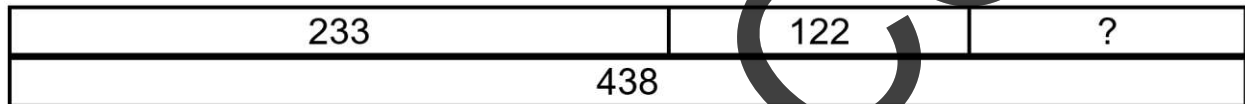
2 (3.5A)

Students sold 438 rolls of wrapping paper. Buyers had a choice of striped, polka dot, or solid colors.

- Students sold 233 rolls of striped paper.
- Students sold 122 rolls of polka dot paper.

Which model can be used to find the number rolls of solid colored paper sold?

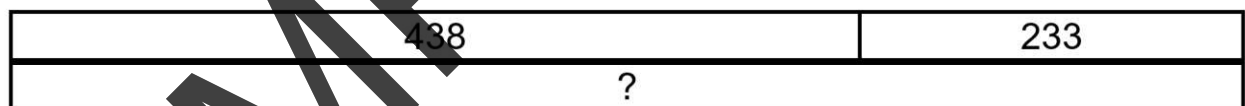
F



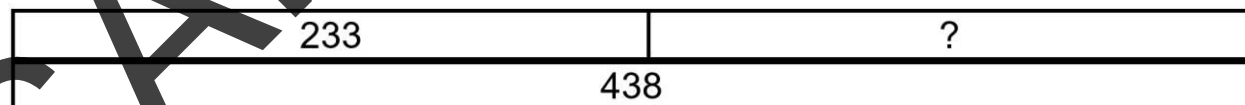
G



H



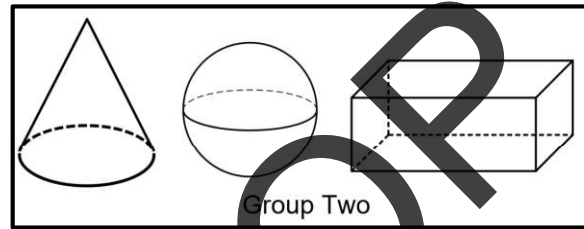
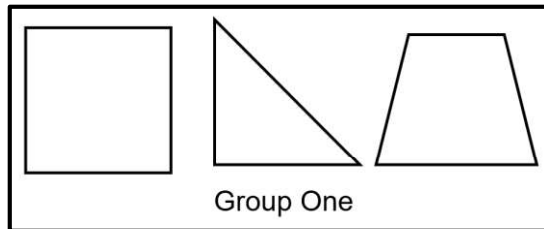
J



Spiral 67

1 (3.6A)

Two groups of shapes are shown.



To which group would a cylinder belong and why?

A A cylinder would not go in either group, because it has two circular bases.

B A cylinder would go in Group One, because it is two dimensional.

C A cylinder would go in Group Two, because it is a triangular prism.

D A cylinder would go in Group Two, because it is three dimensional.

2 (3.4F)

Sophia bought cookies to share with her friends. She bought 54 cookies in packages of six cookies each. How many packages of cookies did Sophia buy?

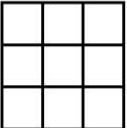
Record your answer and fill in the bubbles. Be sure to use the correct place value.

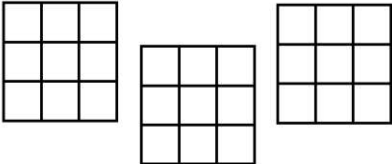
			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

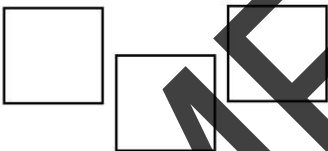
3 (3.5B)

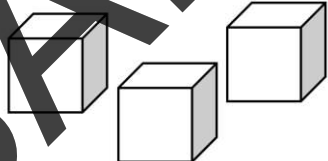
Claire made a pattern with small tiles. She made 3 large square tiles each using 3 rows of 3 tiles each of smaller tiles.

Which model best represents the total number of small tiles Claire used?

A  = 9

B  = 27

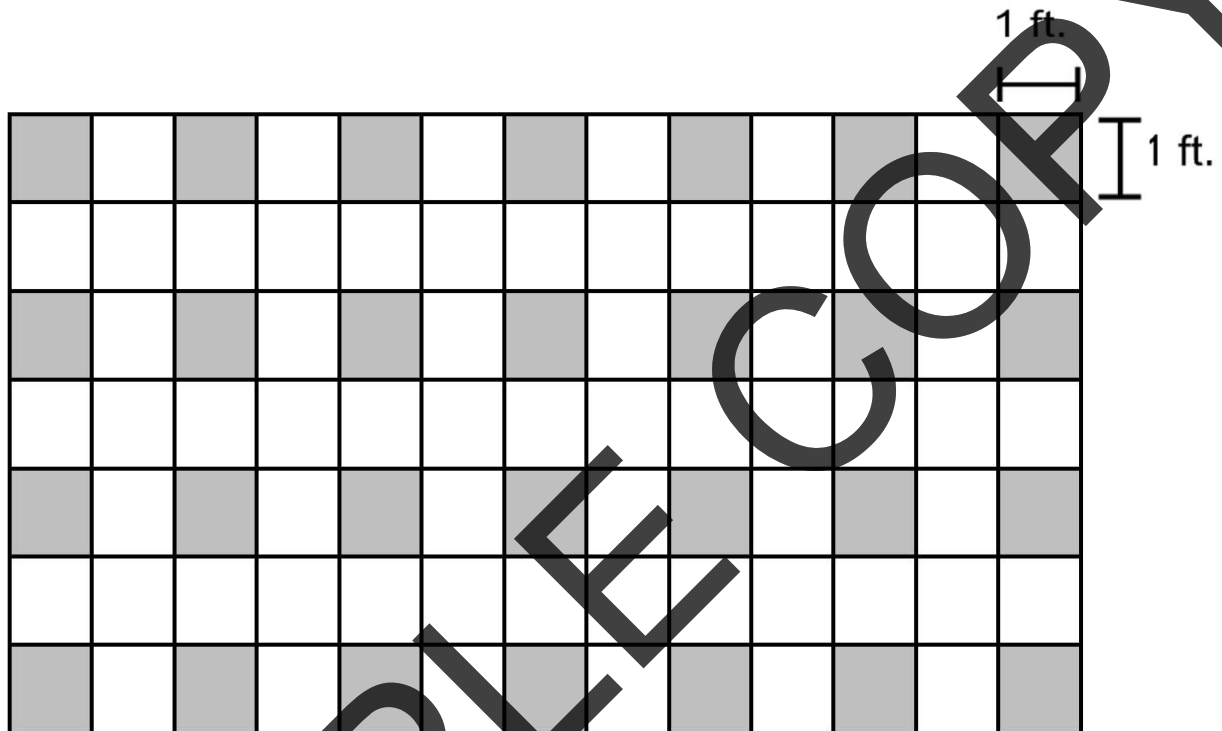
C  = 3

D  = 81

Spiral 68

1 (3.6C)

The picture shows the tile pattern Belinda created on a rectangular wall.



What is the total area of the wall in square feet?

F 72 square feet

G 100 square feet

H 78 square feet

J 91 square feet

2 (3.5E)

Bags of colored cubes have 25 more red cubes than blue cubes.

Which table correctly shows the relationship between the red and blue cubes?

A

Colored Cubes

Blue	Red
28	3
31	6
42	17
60	35

B

Colored Cubes

Blue	Red
2	50
3	73
4	100
5	125

C

Colored Cubes

Red	Blue
28	3
31	5
42	6
53	7

D

Colored Cubes

Red	Blue
30	5
32	7
41	16
60	35

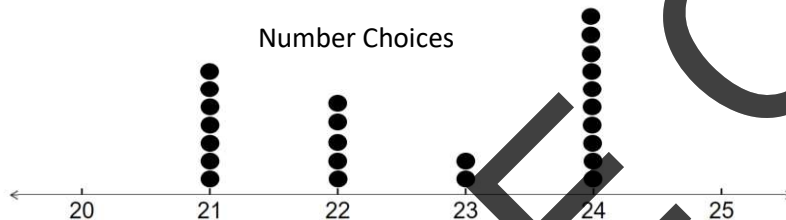
3 (3.8A)

The frequency table shows the results when students were asked to choose a number between 20 and 25.

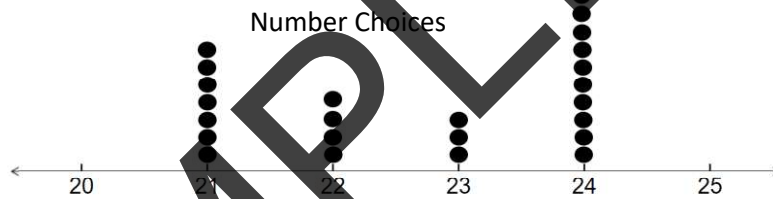
Number Choices	
Number	Frequency
21	/// //
22	///
23	//
24	/// ///

Which dot plot best represents the data in the frequency table?

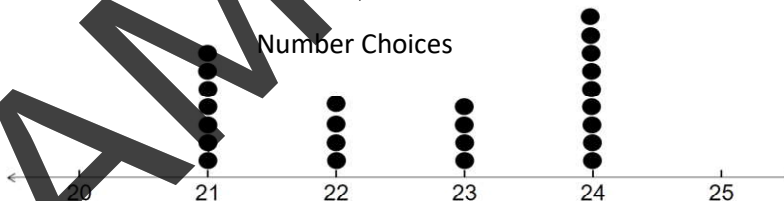
F



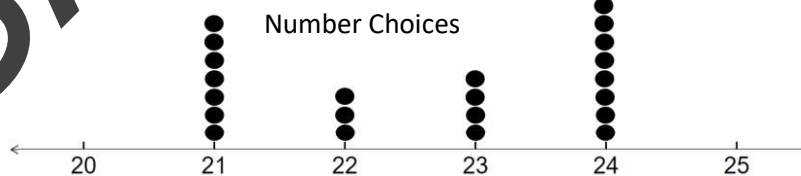
G



H



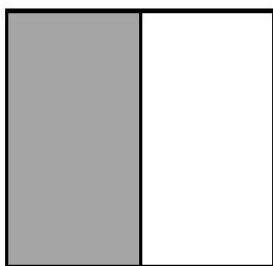
J



Spiral 69

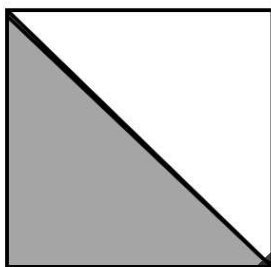
1 (3.6E)

Val drew two congruent squares and shaded the same fraction amount of each square. This is one of Val's squares.

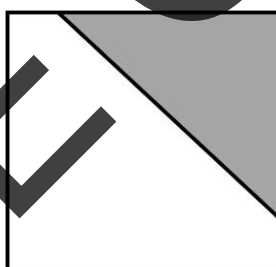


Which of these could be Val's other square?

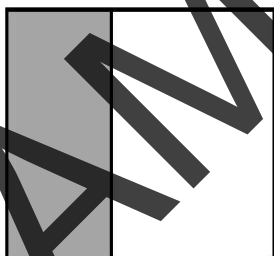
A



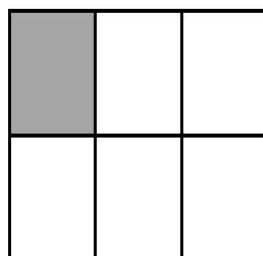
B



C

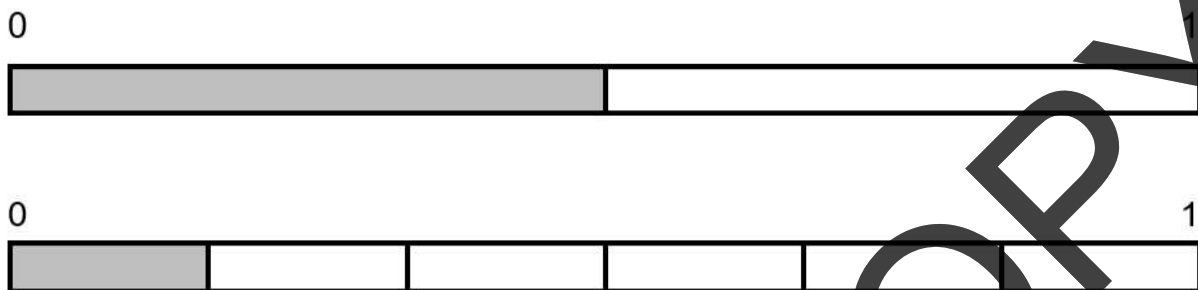


D



2 (3.3H)

The strip diagrams are shaded to show two fractions.



Based on the models, which statement is true?

F $\frac{1}{2} < \frac{1}{6}$, because two is less than six.

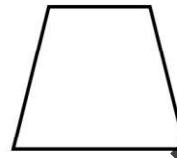
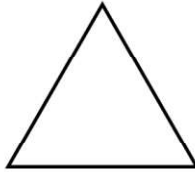
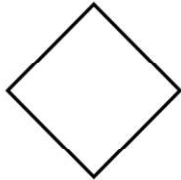
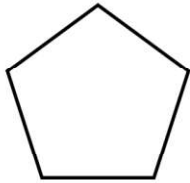
G $\frac{1}{2} = \frac{1}{6}$, because one equals one.

H $\frac{1}{2} > \frac{1}{6}$, because a part of something divided into two pieces is greater than a part of something divided into six pieces.

J $\frac{1}{6} > \frac{1}{2}$, because as denominators get larger, the pieces get larger.

3 (3.6A)

A group of shapes is shown.



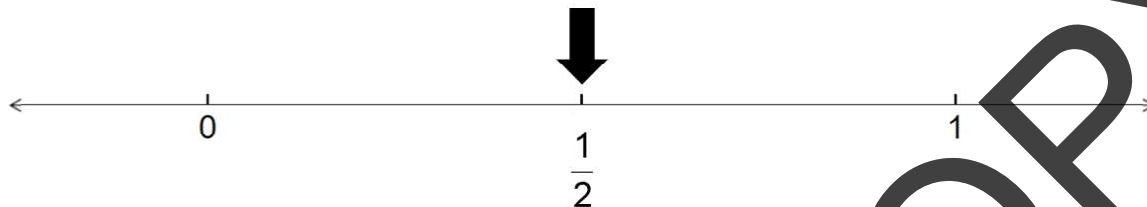
Which statement is true?

- F** All of the shapes are polygons.
- G** All of the shapes are quadrilaterals.
- H** All of the shapes have 5 vertices.
- J** All of the shapes are triangles.

Spiral 70

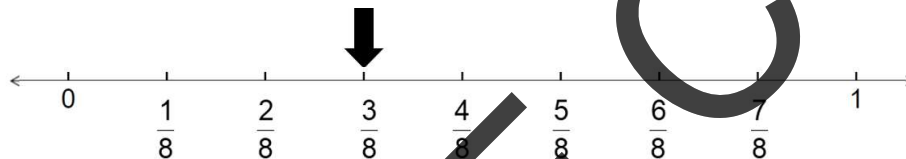
1 (3.3F)

An arrow marks $\frac{1}{2}$ on a number line.

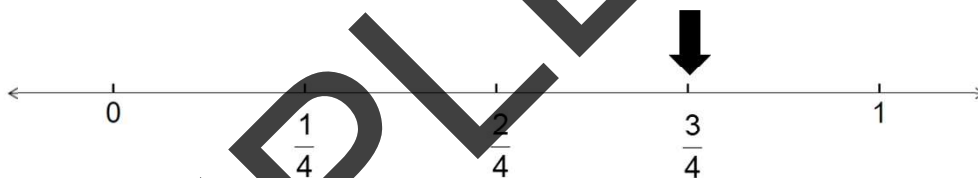


Which of these number lines shows a fraction equivalent to $\frac{1}{2}$ marked with an arrow?

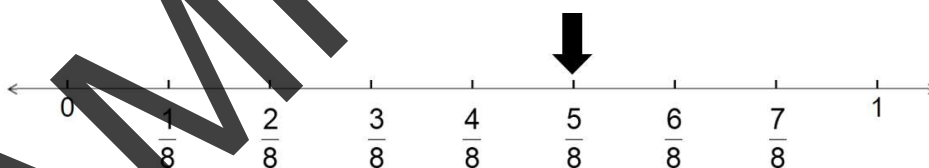
F



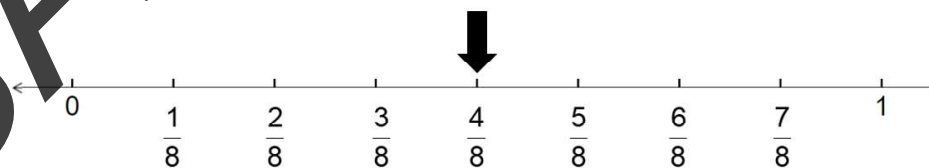
G



H

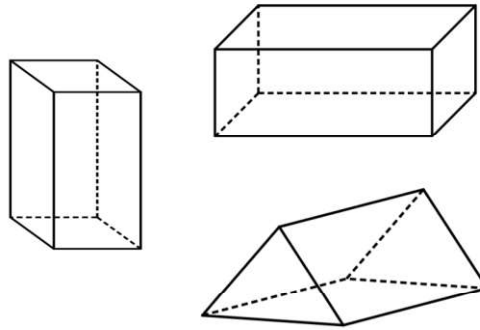


J



2 (3.6A)

Darrell made a group of shapes.



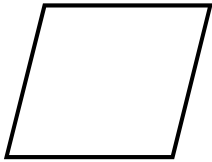
Which shape should Darrell add to this group and why?

- A** a triangle, because all of the shapes have 3 sides
- B** a cube, because all of the shapes are prisms
- C** a cone, because a cone has a circular base
- D** a rectangle, because each shape has a rectangular base

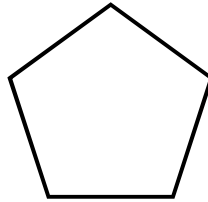
3 (3.6B)

Which of these figures does NOT appear to be a rhombus, trapezoid, rectangle or square?

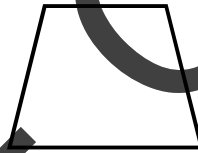
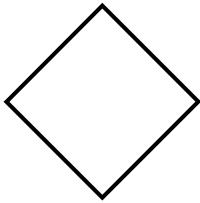
F



G



H



Spiral 71

1 (3.5C)

Jon scored 2 times in the game on Saturday. This expression can be used to show the number of times Jon scored on Tuesday.

$$2 \times 3$$

Which statement is true?

- A** Jon scored 3 more times on Tuesday than on Saturday.
- B** Jon scored half as many times on Tuesday as on Saturday.
- C** Jon scored 3 times as many times on Tuesday as he did on Saturday.
- D** Jon scored 3 more points on Tuesday than on Saturday.

2 (3.2A)

Riley made tally marks on a place value chart to represent 23,104. Which chart correctly represents this number?

F

Ten Thousands	Thousands	Hundreds	Tens	Ones
//	/	///		////

G

Ten Thousands	Thousands	Hundreds	Tens	Ones
//		//	/	////

H

Ten Thousands	Thousands	Hundreds	Tens	Ones
///	//	/		////

J

Ten Thousands	Thousands	Hundreds	Tens	Ones
//	///	/		////

3 (3.5E)

A tool rental company offered renters a \$30 discount for tools returned on time.

Which table does NOT correctly show the relationship between the original amount owed and the amount owed with the discount?

A Rental Costs

Rental Cost	\$60	\$95	\$105	\$315
With Discount	\$30	\$65	\$75	\$285

B Rental Costs

Rental Cost	\$72	\$86	\$100	\$210
With Discount	\$42	\$56	\$70	\$180

C Rental Costs

Rental Cost	\$84	\$91	\$112	\$215
With Discount	\$54	\$61	\$82	\$185

D Rental Costs

Rental Cost	\$75	\$90	\$102	\$312
With Discount	\$45	\$50	\$52	\$252

Spiral 72

1 (3.4I)

Julio's teacher wrote this number on the board, and asked Julio to explain how he knows if the number is even or odd.

36

Which statement is the best explanation?

F The number is even, because it can be divided evenly by two.

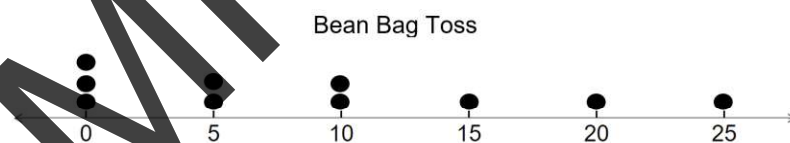
G The number is odd, because the digit in the tens place is odd.

H The number is even, because $4 \times 9 = 36$.

J The number is odd, because $3 + 6 = 9$, and 9 is an odd number.

2 (3.8A)

A student tossed 10 bean bags into buckets worth different points. The scores for the ten tosses are represented in the dot plot.



Which list best represents the data from the dot plot?

A 5, 10, 0, 20, 0, 5, 10, 0, 10, 25

B 5, 15, 0, 20, 0, 5, 10, 0, 5, 25

C 5, 15, 0, 20, 0, 5, 10, 0, 10, 25

D 5, 15, 0, 20, 0, 5, 0, 0, 10, 25

3 (3.8A)

The table shows the number of third graders who ride the bus each day.

Bus Riders

Day	Number
Monday	6
Tuesday	7
Wednesday	10
Thursday	8
Friday	7

Which frequency table best represents the information in the table?

F Bus Riders

Day	Frequency
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

G Bus Riders

Day	Frequency
Monday	 /
Tuesday	
Wednesday	
Thursday	
Friday	

H Bus Riders

Day	Frequency
Monday	 //
Tuesday	 //
Wednesday	
Thursday	
Friday	

J Bus Riders

Day	Frequency
Monday	
Tuesday	
Wednesday	 //
Thursday	
Friday	

Spiral 73

1 (3.3G)

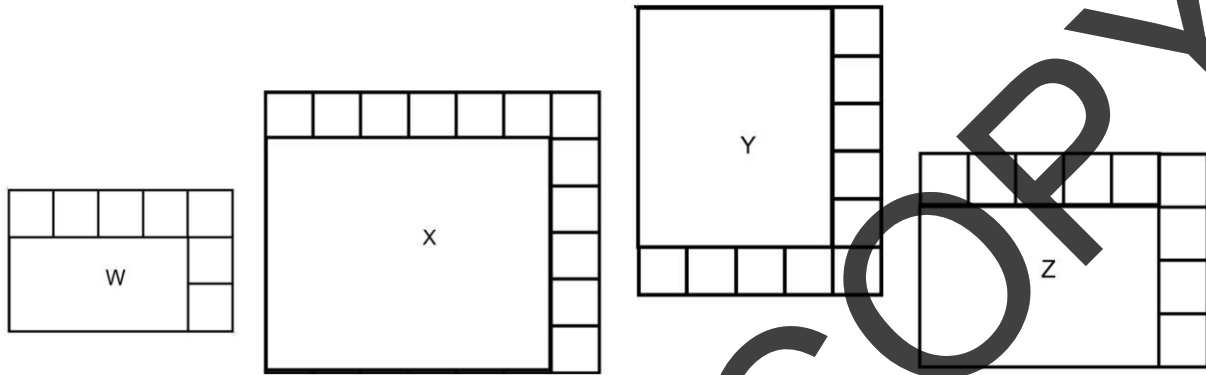
Addison and five friends each brought 24 bottles of water to donate after a hurricane. How many bottles did the students donate?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.6C)

Each of the rectangles shown will be covered in equal size tiles. Some of the tiles are shown.



Which statement is true?

F Rectangle W has an area of 12 square units.

G Rectangles Y and Z have the same area.

H Rectangle X has an area of 42 square units.

J Rectangle Y has an area of 24 square units.

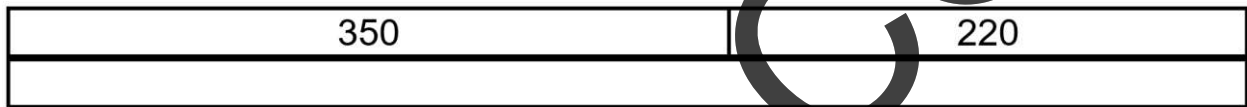
3 (3.5A)

Michael kept a record of his driving distance for three weeks.

- Week One 350 miles
- Week Two 220 miles
- Week Three 110 miles

Which model can be used to find the total number of miles Michael drove in three weeks?

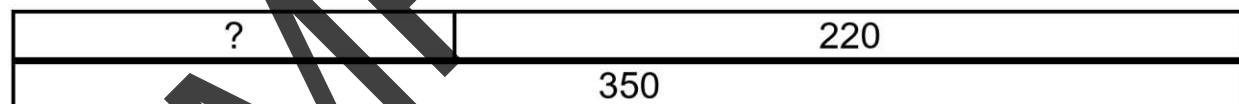
A



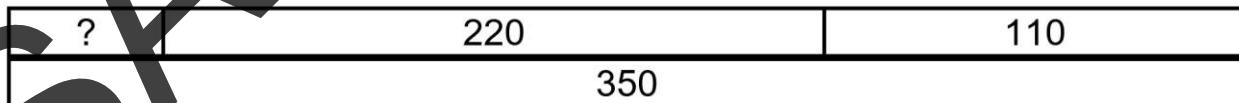
B



C



D



Spiral 74

1 (3.5E)

Amelia runs 5 miles each day.

Which table correctly shows the relationship between the number of days Amelia runs and her total number of miles run?

F

Running Distance

Days	Miles
10	2
25	5
40	8
80	16

G

Running Distance

Days	Miles
2	7
5	12
8	13
16	21

H

Running Distance

Days	Miles
2	10
5	25
8	40
16	80

J

Running Distance

Days	Miles
2	10
5	22
8	34
16	66

2 (3.4J)

Raquel has 24 unicorn stickers. She places the same number of stickers on each of 8 pages.

Which equation can be used to find the number of stickers Raquel places on each page?

A $24 \div 6 = 4$

B $24 \times 8 = 192$

C $8 \times 3 = 24$

D $24 - 8 = 16$

3 (3.3F)

Luciana replaced the wheels on nine pairs of roller skates. Each pair has eight wheels. How many wheels did Luciana replace?

F 81

G 54

H 64

J 72

Spiral 75

1 (3.3C)

What is represented by the unit fraction, $\frac{1}{4}$?

- A** one part of a whole that is divided into four equal parts
- B** four parts of a whole
- C** one part of a whole that is divided into five equal parts
- D** one part of a whole that is divided into four unequal parts

2 (3.8B)

The table represents the amount of rainfall in inches for four months.

Rainfall in Inches

Month	February	March	April	May
Frequency				

If June has twice as much rainfall as May, how much rain will fall in June in inches?

- F** 18 inches
- G** 16 inches
- H** 9 inches
- J** 12 inches

3 (3.4F)

Camila decorated nine cupcakes. She had 36 decorations and put the same number on each cupcake. How many decorations did Camila put on each cupcake?

A 324

B 40

C 4

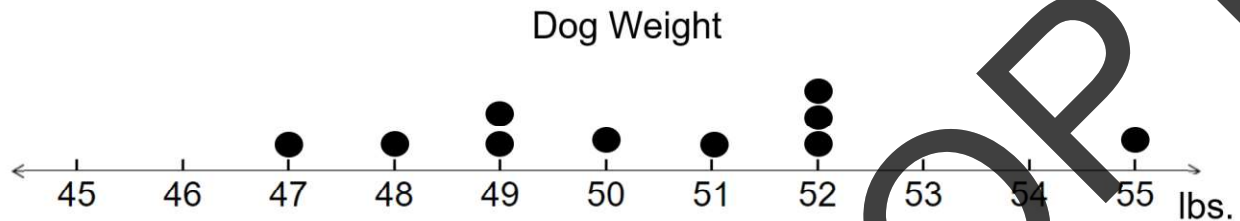
D 6

SAMPLE COPY

Spiral 76

1 (3.8B)

The dot plot represents the weight of ten dogs entered in the working dog class at the dog show.



What is the total weight of the ten dogs in pounds?

F 495 pounds

G 505 pounds

H 515 pounds

J 487 pounds

2 (3.5D)

What number goes in the to make a true statement?

$$48 \div \square = 16$$

A 2

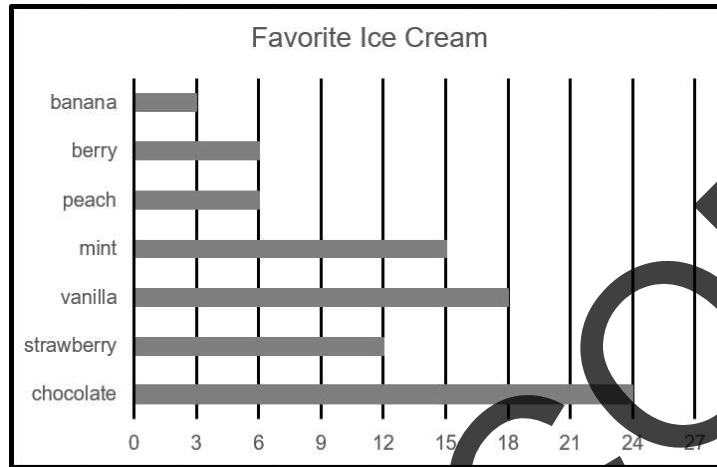
B 12

C 6

D 3

3 (3.8A)

The bar graph represents student choices for favorite ice cream flavor.



Which table best represents the data shown in the bar graph?

F

Favorite Ice Cream

Flavor	Votes
chocolate	24
strawberry	12
vanilla	18
mint	15
peach	6
berry	6
banana	3

G

Favorite Ice Cream

Flavor	Votes
banana	3
strawberry	12
vanilla	24
mint	15
peach	6
berry	6
chocolate	21

H

Favorite Ice Cream

Flavor	Votes
banana	3
strawberry	12
peach	9
mint	15
vanilla	21
berry	6
chocolate	21

J

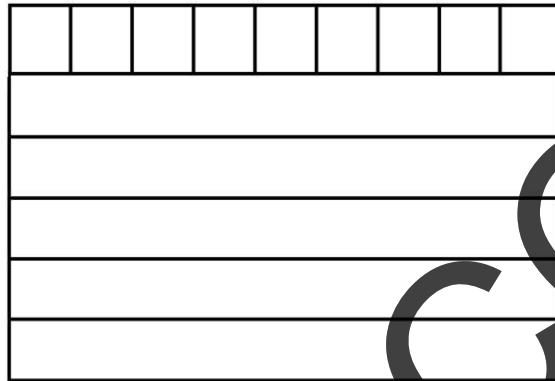
Favorite Ice Cream

Flavor	Votes
vanilla	27
peach	9
strawberry	12
mint	15
banana	6
berry	6
chocolate	21

Spiral 77

1 (3.6C)

Janice made a doll quilt using squares with an area of 1 square inch each. Part of the squares are shown.



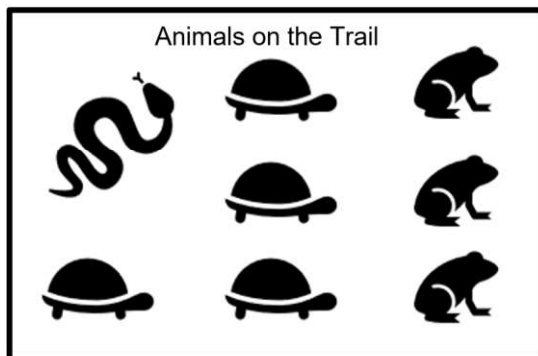
What is the area of the quilt in square inches?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.3A)

Able made a poster of the animals he saw on his hike.



What fraction of the animals Able saw were snakes?

F $\frac{1}{8}$

G $\frac{1}{7}$

H $\frac{1}{6}$

J $\frac{3}{8}$

3 (3.6A)

Aria is sorting shapes and putting all of the triangular prisms together.

What information will help her decide if a shape is a triangular prism?

A A triangular prism has only one triangular face.

B A triangular prism has two, congruent triangular faces and three rectangular faces.

C A triangular prism does not have vertices.












D A triangular prism has two congruent circular bases.

Spiral 78

1 (3.8A)

The pictograph shows the number of dogs in the shelter each day.

Shelter Dogs

Day	Number of Dogs
Monday	  
Tuesday	 
Wednesday	 
Thursday	
Friday	   

 = 4 dogs

Which list best represents the information in the graph?

F

Shelter Dogs

- Monday 12
- Tuesday 8
- Wednesday 8
- Thursday 4
- Friday 16

G

Shelter Dogs

- Monday 12
- Tuesday 8
- Wednesday 8
- Thursday 4
- Friday 14

H

Shelter Dogs

- Monday 12
- Tuesday 8
- Wednesday 4
- Thursday 8
- Friday 16

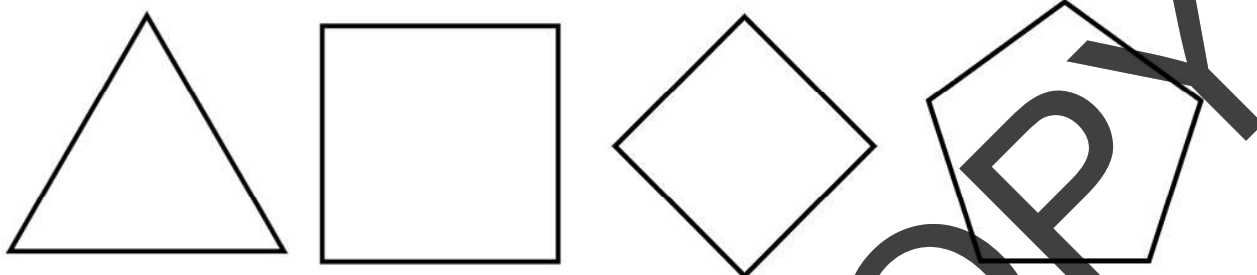
J

Shelter Dogs

- Monday 12
- Tuesday 8
- Wednesday 8
- Thursday 8
- Friday 12

2 (3.6A)

A group of shapes is shown.





























Which statement is true?

- A** All of the shapes are quadrilaterals.
- B** Two of the shapes have more than four sides.
- C** All of the shapes appear to have all sides congruent.
- D** All of the shapes have at least 4 vertices.

3 (3.8B)

The pictograph represents the number of cupcakes sold each day.

Cupcake Sales

Day	Number
Monday	  
Tuesday	   
Wednesday	    
Thursday	     
Friday	   
Saturday	   

 = 8 cupcakes

How many more cupcakes were sold on Thursday and Friday than on Saturday?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

Spiral 79

1 (3.6B)

A star marks a fraction on the number line below.



What fraction is shown on the number line?

A $\frac{5}{8}$

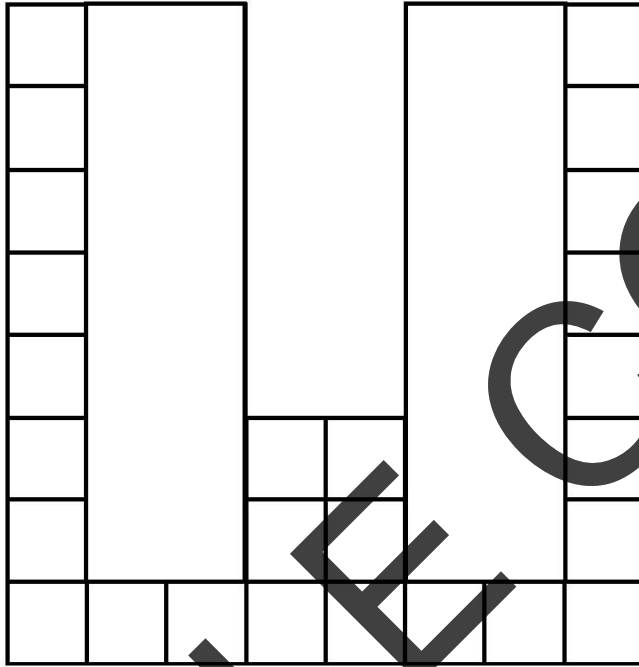
B $\frac{2}{8}$

C $\frac{5}{3}$

D $\frac{3}{8}$

2 (3.6D)

The shape below is covered in same size squares. Each of the squares has an area of 1 square centimeter. Some of the squares are shown.

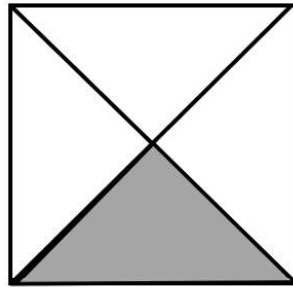


What is the total area of the shape in square centimeters?

- A** 30 square centimeters
- B** 48 square centimeters
- C** 54 square centimeters
- D** 64 square centimeters

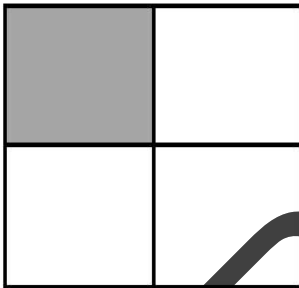
3 (3.6E)

Major drew two congruent squares and shaded the same fraction amount of each square. This is one of Major's squares.

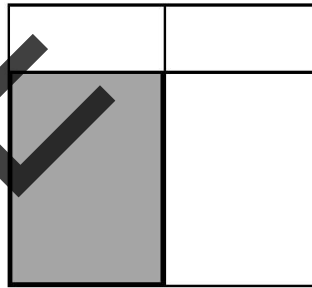


Which of these could NOT be Major's other square?

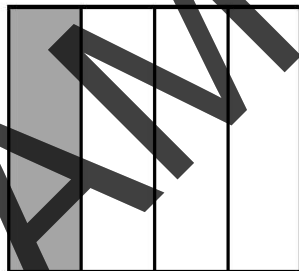
A



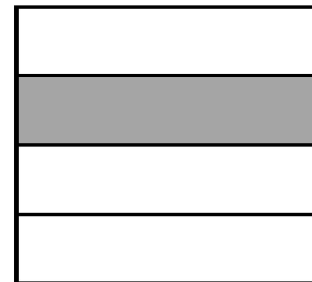
B



C



D



Spiral 80

1 (3.3D)

Mr. Tillson cut a board into six equal pieces. The shaded pieces represent the fraction of the board Mr. Tillson used to build a doghouse.



Which expression represents the fraction of the board Mr. Tillson used to build the doghouse?

F $\frac{1}{5} + \frac{1}{5}$

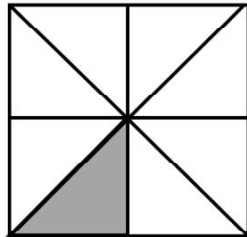
G $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

H $\frac{3}{5} + \frac{3}{5}$

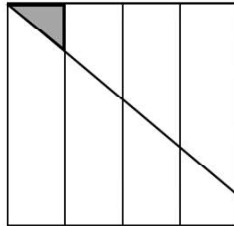
J $\frac{5}{1} + \frac{5}{1} + \frac{5}{1}$

2 (3.6E)

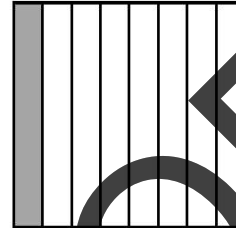
Vincent drew a set of congruent squares. He shaded the same fraction amount of each square.



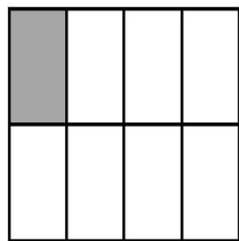
Square 1



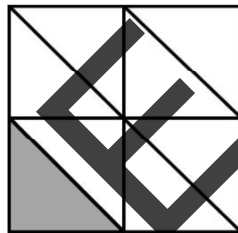
Square 2



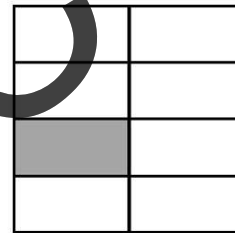
Square 3



Square 4



Square 5



Square 6

Which statement is true?

A All of the squares belong in Vincent's set.

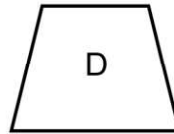
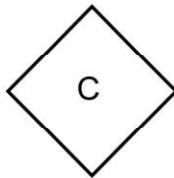
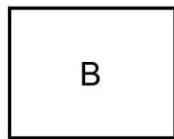
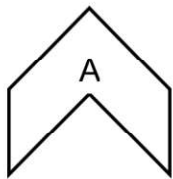
B Only Square 1 and Square 2 belong in Vincent's set.

C Only Square 1, Square 3, and Square 6 belong in Vincent's set.

D Only Square 2 does NOT belong in Vincent's set.

3 (3.6B)

Susan made a poster of rhombus, square, trapezoid, and rectangle shapes.



Which of these shapes could Susan put on her poster?

F Only Shape B

G Only Shapes B and D

H Only Shape D

J Shapes B, C, and D

SAMPLE COPY

Spiral 81

1 (3.3F)

The strip diagram models the fraction $\frac{2}{3}$.



Which strip diagram models a fraction equivalent to $\frac{2}{3}$?

A



B



C



D



2 (3.9B)

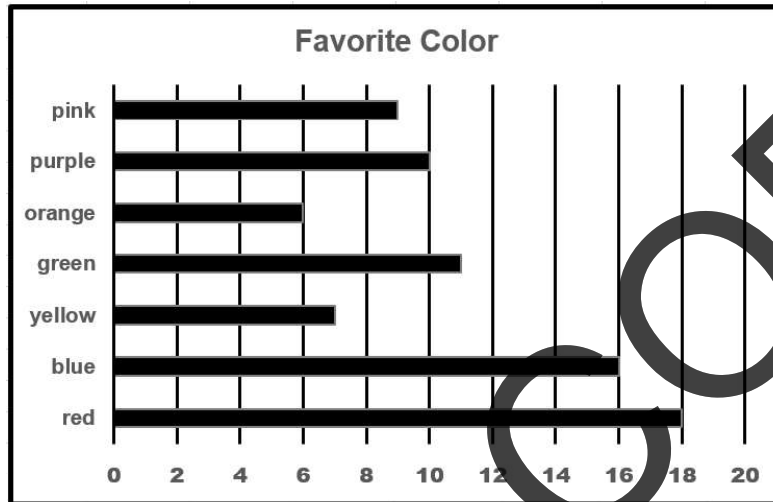
Ralph has a job working at a bakery. He opens a savings account and puts \$50 from each paycheck into the account.

Which statement is NOT true?

- F** The bank will pay interest on Ralph's account, helping the account to grow.
- G** The bank will charge Ralph a large fee each month for storing his money.
- H** Ralph can use the savings later to help pay for college.
- J** Ralph can use the savings later to help buy a car or home.

3 (3.8B)

Students were asked to choose their favorite color. The bar graph represents their choices.



How many students chose pink, purple, orange, or green?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

Spiral 82

1 (3.4A)

Three students collected pennies to donate to a class project.

- Omar 526
- Liza 382
- Melia 237

How many more pennies did Liza and Melia collect than Omar?

F 77

G 104

H 93

J 619

2 (3.5C)

Ahsan completed 12 math problems before lunch and 3 times that many after lunch.

Which expression shows the number of math problems Ahsan completed after lunch?

A 12×3

B $12 + 3$

C $12 - 3$

D $12 \div 3$

3 (3.5E)

The table shows the relationship between the amount of each color in bags of colored candy.

Candy

Red	8	12	22	24
Purple	6	10	20	22
Yellow	16	24	44	48

Which statement is NOT true?

F The number of red candies is 2 more than the number of purple candies.

G The number of yellow candies is 10 more than the number of purple candies.

H The number of yellow candies is 2 times the number of red candies.

J The number of purple candies is 2 less than the number of red candies.

Spiral 83

1 (3.6A)

Ethan brought objects from home to represent a rectangular prism.

- Tissue box
- Library book
- Soup can
- Puzzle cube

Which of things Ethan brought is NOT a rectangular prism?

A tissue box

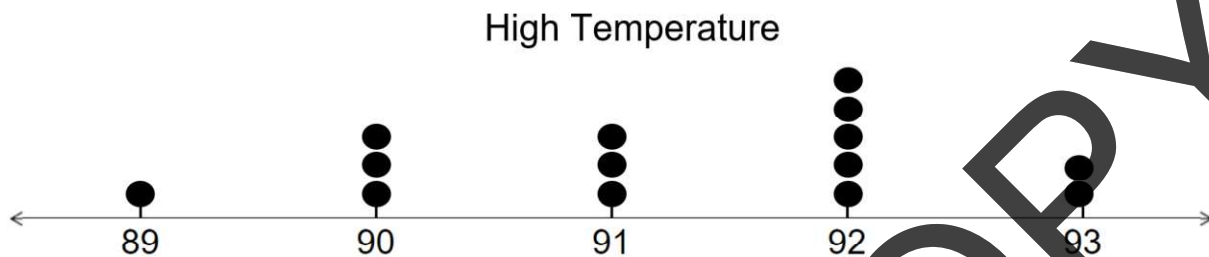
B library book

C soup can

D puzzle cube

2 (3.8A)

The dot plot represents the daily high temperature for 14 days in May.



Which frequency best represents the data in the dot plot?

F High Temperature

High (°F)	Frequency (days)
89 °F	/
90 °F	///
91 °F	///
92 °F	///
93 °F	//

G High Temperature

High (°F)	Frequency (days)
89 °F	/
90 °F	//
91 °F	////
92 °F	///
93 °F	//

H High Temperature

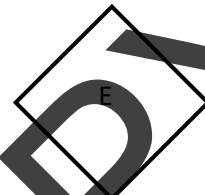
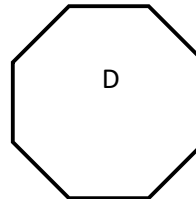
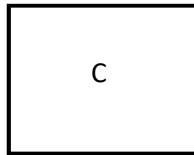
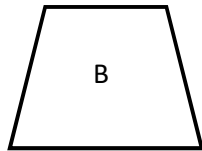
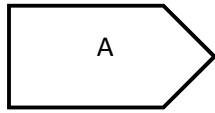
High (°F)	Frequency (days)
89 °F	/
90 °F	//
91 °F	///
92 °F	///
93 °F	///

J High Temperature

High (°F)	Frequency (days)
89 °F	/
90 °F	///
91 °F	///
92 °F	///
93 °F	//

3 (3.6B)

Benjamin made a poster of rhombus, square, trapezoid, and rectangle shapes.



Which of these shapes could Benjamin NOT put on his poster?

- A** Shapes A and D
- B** Only Shapes B and D
- C** Only Shape D
- D** Shapes B, C, and D

Spiral 84

1 (3.9A)

Enrico works for a trucking company. The company pays him each week for the work he does. His check this week is less than his check last week.

Which statement is most likely true?

F Enrico worked fewer hours this week than he did last week.

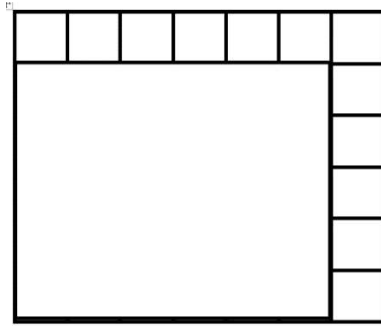
G Enrico worked more hours this week than he did last week.

H The trucking company needed more workers this week than they did last week.

J The trucking company pays different amounts depending on the weather.

2 (3.6C)

A rectangle is covered in same sized squares. Part of the squares are shown.



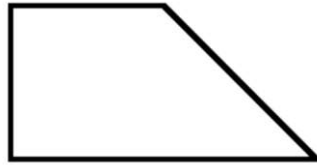
What is the area of the rectangle in square units?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

3 (3.6B)

A shape is shown.



Which statement is correct?

F The shape belongs to the rhombus, square, trapezoid, and rectangle group, because it is a four-sided polygon.

G The shape does not belong to the rhombus, square, trapezoid, and rectangle group, because one side is slanted and the other side is not.

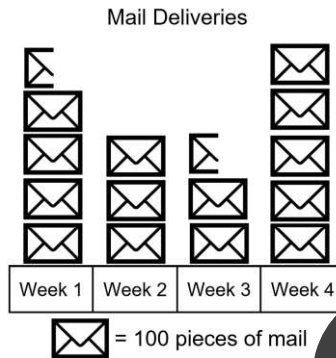
H The shape does not belong to the rhombus, square, trapezoid, and rectangle group, because it has four sides.

J The shape does belong to the rhombus, square, trapezoid, and rectangle group, because all of the sides are congruent.

Spiral 85

1 (3.8A)

The pictograph represents the number of pieces of mail delivered to a business each week for four weeks.



Which list best represents the same data shown in the pictograph?

A

Mail Deliveries

- Week 1, 450
- Week 2, 300
- Week 3, 250
- Week 4, 500

B

Mail Deliveries

- Week 1, 425
- Week 2, 300
- Week 3, 225
- Week 4, 500

C

Mail Deliveries

- Week 1, 400
- Week 2, 300
- Week 3, 250
- Week 4, 500

D

Mail Deliveries

- Week 1, 450
- Week 2, 400
- Week 3, 250
- Week 4, 400

2 (3.4J)

A tailor has 42 buttons to sew down the fronts of 7 shirts. She puts the same number of buttons on each shirt.

How many buttons should she put on each shirt?

F 49, because $42 + 7 = 49$

G 294, because $42 \times 7 = 294$

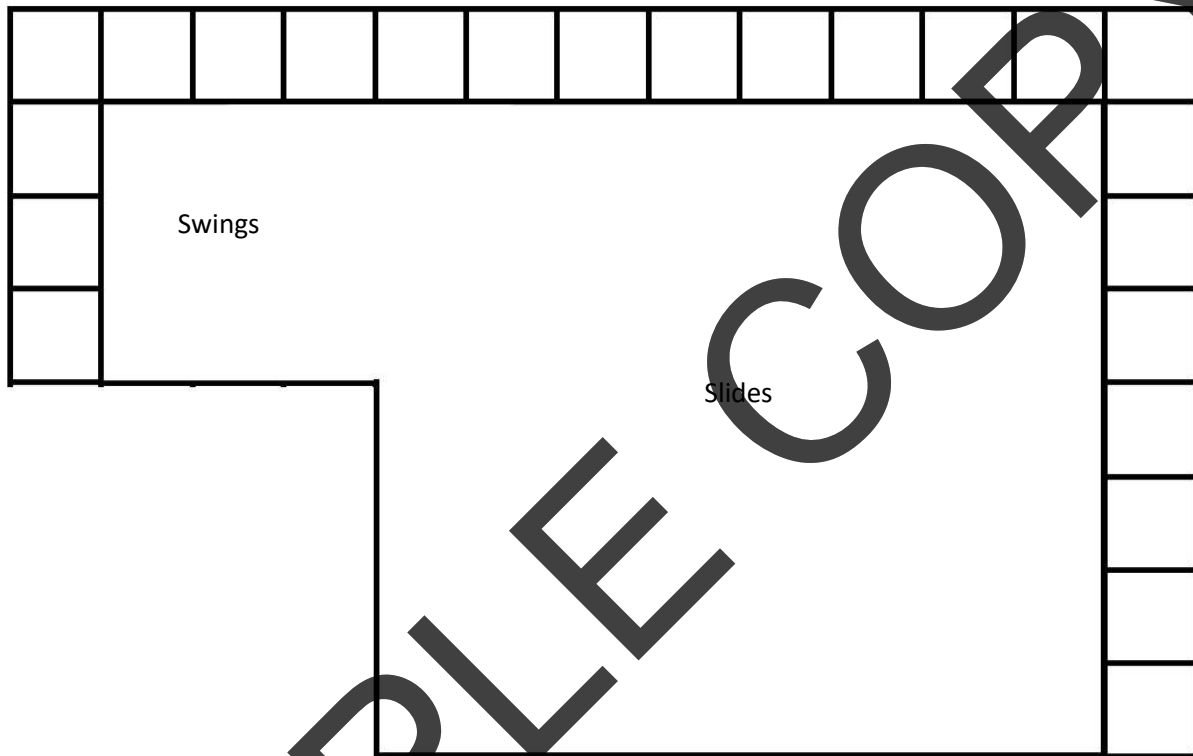
H 36, because $42 - 7 = 36$.

J 6, because $6 \times 7 = 42$

SAMPLE COPY

3 (3.6D)

A playground has a rectangular area for slides and a square area for swings. The playground is covered in square rubber mats. Each mat has an area of 1 square yard. Some of the mats are shown.



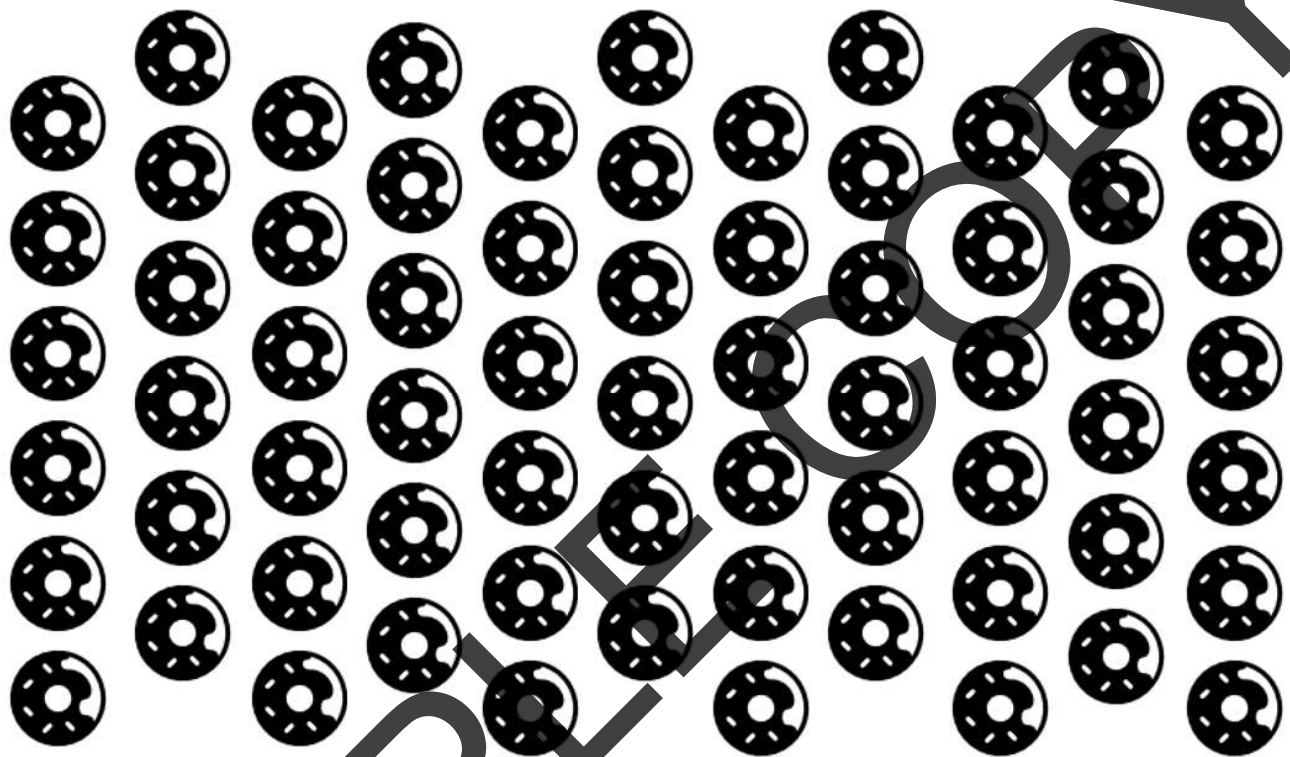
What is the total area of the playground in square meters?

- A 104 square meters
- B 42 square meters
- C 88 square meters
- D 112 square meters

Spiral 86

1 (3.4H)

A baker makes 66 donuts. The picture shows the total number of donuts.



If the baker puts 3 donuts in each bag, how many bags does the baker fill?

F 20

G 22

H 15

J 12

2 (3.9A)

Becker works for a lawn care company. Which would most likely affect the amount of money Becker earns?

- A** how well he drives
- B** the number of hours he works
- C** where he lives
- D** what kind of car he drives

3 (3.9E)

After a hurricane there is a shortage of bananas in Texas.

Which statement is most likely true?

- F** The price of bananas will increase.
- G** The price of bananas will remain the same.
- H** Most of the bananas will be rotten.
- J** The price of bananas will decrease.

Spiral 87

1 (3.9D)

Jack borrowed money from the bank to buy a used car. He borrowed \$12,500 and paid the bank back \$15,000.

Which of these is the most likely reason Jack paid the bank more money than he borrowed?

- A** He had to pay interest on the amount of money he borrowed.
- B** He had to pay income tax on the money he borrowed.
- C** He wanted to thank the bank for good service.
- D** He wanted to open a savings account with the extra money.

2 (3.4G)

The school ordered 7 spiral notebooks for each of the 87 third-grade students. How many spiral notebooks were ordered for the third grade?

F 579

G 578

H 609

J 619

3 (3.6A)

Camilla describes a group of shapes for her friends to guess.

- All of the shapes in the group have four sides.
- There is a rhombus and a trapezoid in the group.
- The shapes in the group all have four vertices.

What is Camilla's group?

A quadrilaterals

B pentagons

C rectangles

D cylinders

Spiral 88

1 (3.5E)

The table shows the hourly rates to use the party room at the skating rink along with the total charge after the cleaning fee has been included.

Party Room Rental

Hours	Room Rental	Total Cost
2	\$100	\$175
3	\$150	\$225
5	\$250	\$325
6	\$300	\$375

Which statement is true?

F To use the party room at the skating rink, there is a charge for each hour and a \$75 cleaning fee.

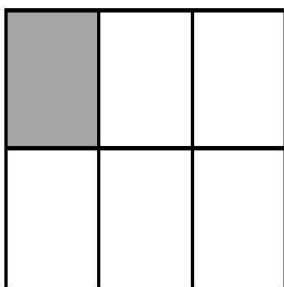
G To use the party room at the skating rink, there is a charge of \$75 for each hour.

H To use the party room at the skating rink, there is a charge for each hour and a \$50 cleaning fee.

J To use the party room at the skating rink, there is a charge of \$100 for each hour and a \$75 cleaning fee.

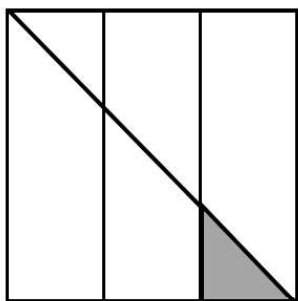
2 (3.6E)

Myra had two congruent square tiles. She painted the same fraction amount of each tile. This is one of Myra's tiles.

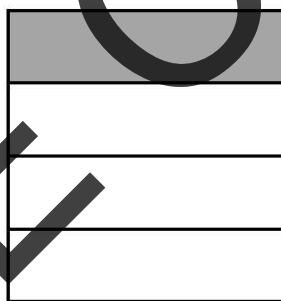


Which of these could be Myra's other tile?

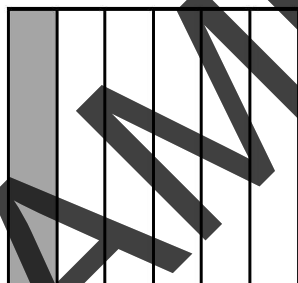
A



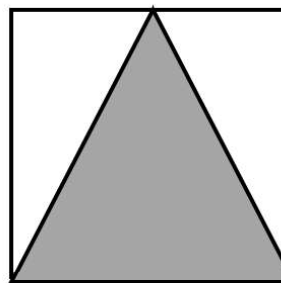
B



C



D



3 (3.9B)

When Jenn was born, her parents opened a savings account in her name. Each month they add to the account.

Which statement is most likely true?

F Jenn's parents use the money each month to buy diapers and formula.

G Jenn can spend the money for a beach vacation when she is 21.

H Jenn can use the money to pay for college.

J Jenn's parents use the money each month to make their car payment.

SAMPLE COPY

Spiral 89

1 (3.9A)

Emily works in a bakery. Which would most likely NOT affect the amount of money she makes?

- A** Emily's special baking skills
- B** the number of hours Emily works
- C** the size of Emily's apartment
- D** the number of years Emily has worked in the bakery

2 (3.7A)

The number line shows the distance of Marco's barn from the house.



Based on the model, how far is the barn from the house?

F $\frac{5}{8}$ -mile

G $\frac{3}{8}$ -mile

H one mile

J $\frac{1}{2}$ -mile

2 (3.7B)

The line segment represents the length of a rectangular postcard. The postcard is 4 inches wide.



Use the ruler provided to measure the length of the postcard to the nearest inch.

Which measurement is closest to the perimeter of the postcard to the nearest inch?

- A 24 inches
- B 20 inches
- C 10 inches
- D 12 inches

Spiral 90

1 (3.9D)

Madeline needs a car to get to and from work. She has \$4,000 in savings but needs an additional \$8,000 for the car.

Which is the best choice for Madeline?

F Quit her job, because she doesn't have transportation.

G Borrow the money from the bank and set aside part of each paycheck to pay back the loan.

H Ask her boss for the extra money.

J Borrow the money from the bank and plan to move before the first payment.

2 (3.6C)

Which of the following rectangles would NOT have an area of 48 square centimeters?

A a rectangle with 6 rows of 8 square centimeters per row

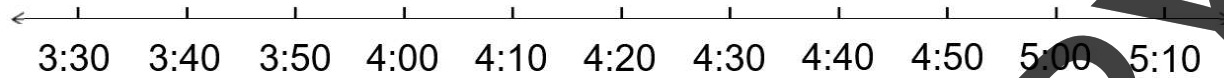
B a rectangle with 4 rows of 12 square centimeters per row

C a rectangle with 9 rows of 6 square centimeters per row

D a rectangle with 3 rows of 16 square centimeters per row

3 (3.7C)

Marissa left her house at 3:30 P.M. She drove 10 minutes to the bank, spent 30 minutes meeting with her banker, and drove 10 minutes to her house.



At what time did Marissa return home?

F 4:20 P.M.

G 3:40 P.M.

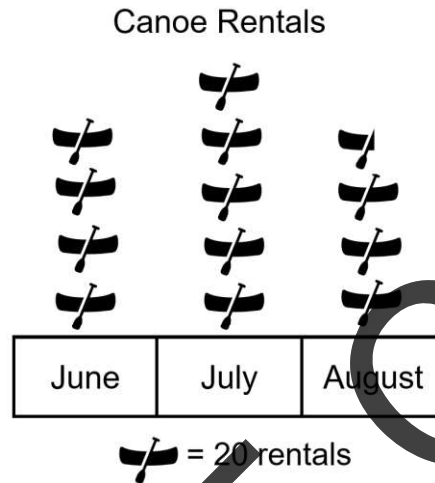
H 5:00 P.M.

J 4:45 P.M.

Spiral 91

1 (3.8B)

The pictograph represents the number of canoe rentals at the river for three months.



If the number of September rentals is the sum of June and August rentals, how many September rentals will there be?

- A 150
- B 121
- C 130
- D 135

2 (3.9B)

Bailey rides the bus each day to and from her college classes. She knows that when she graduates and goes to work she will need a car.

What is the best choice for Bailey?

F Hope someone gives her a car for graduation.

G Plan to get a job near the bus stop.

H Plan to get a ride to work with a friend.

J Get a part time job now and start a savings plan.

3 (3.9D)

Which of the following is NOT a good reason to borrow money?

A to pay medical bills

B to get transportation to and from work

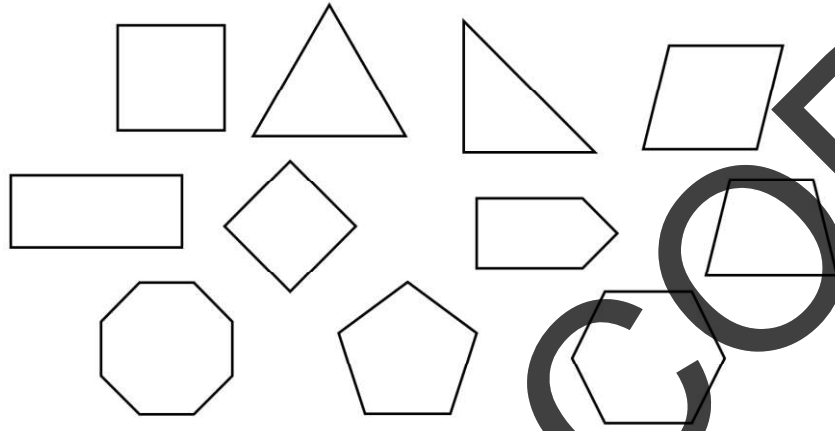
C to just have extra money to spend

D to buy a home

Spiral 92

1 (3.6A)

A group of 11 polygons is shown.



How many of the polygons have more than 5 vertices?

F 1

G 5

H 2

J 3

2 (3.5D)

What number goes in the to make the equation true?

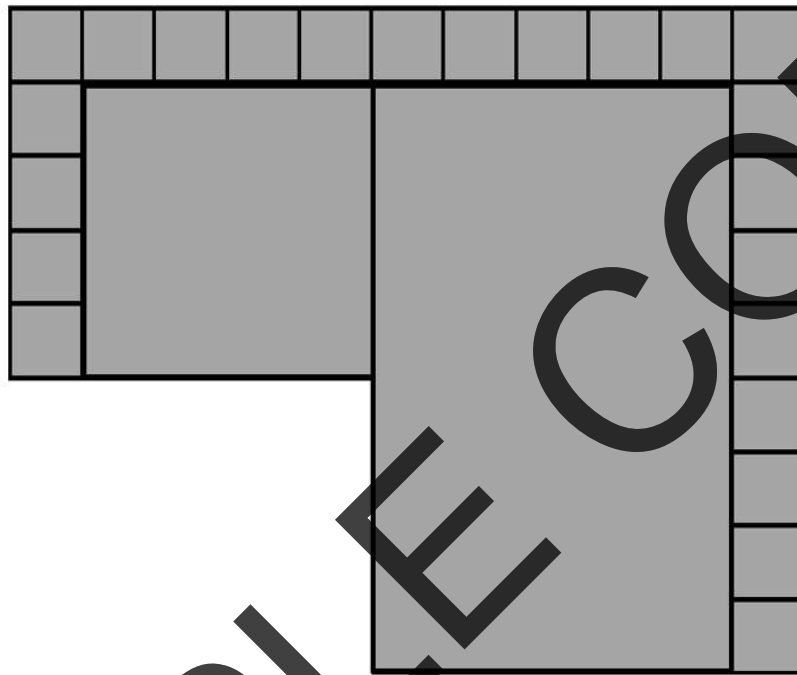
$$8 \times \square = 72$$


Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

3 (3.6D)

A gym has a rectangular part next to a square part. Both parts are covered in rubber mats. Each mat has an area of one square meter. Some of the mats are shown.



 = 1 square meter

What is the total area of the two parts of the gym in square meters?

F 64 square meters

G 81 square meters

H 70 square meters

J 79 square meters

Spiral 93

1 (3.4J)

Autumn has 60 pieces of candy to share equally between herself and 5 friends.

How many pieces of candy does each person get?

A 300, because $60 \times 5 = 300$

B 10, because $6 \times 10 = 60$

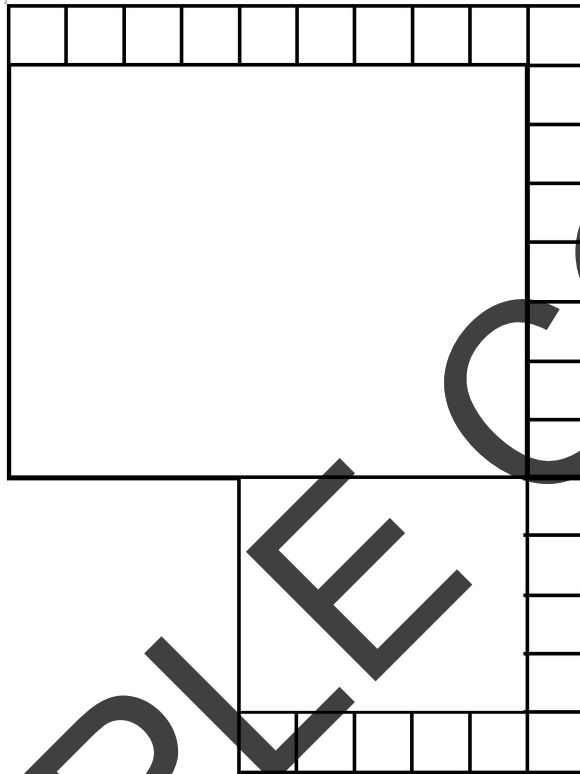
C 65, because $60 + 5 = 65$

D 66, because $60 + 6 = 66$

SAMPLE COPY

2 (3.6D)

The shape below is covered in same size squares. Each of the squares has an area of 1 square inch. Some of the squares are shown.



What is the total area of the shape in square inches?

F 110 square inches

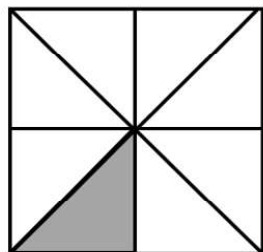
G 88 square inches

H 121 square inches

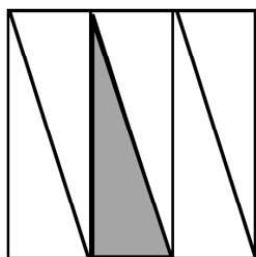
J 101 square inches

3 (3.6E)

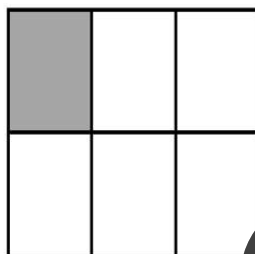
Rosemary drew a set of congruent squares. She shaded the same fraction amount of each square.



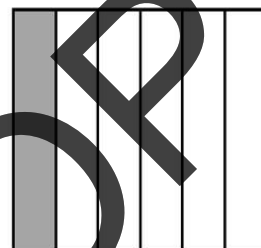
Square 1



Square 2



Square 3



Square 4

Which square does NOT belong in Rosemary's set?

- A Square 1
- B Square 2
- C Square 3
- D Square 4

Spiral 94

1 (3.9E)

Due to great weather, peach trees have produced a huge number of peaches for a record setting crop. Peaches must be sold quickly before they rot.

Which statement is most likely true?

- F** The price of peaches will increase.
- G** The price of peaches will decrease.
- H** The price of peaches will be the same as last year.
- J** The number of peaches has no effect on the price.

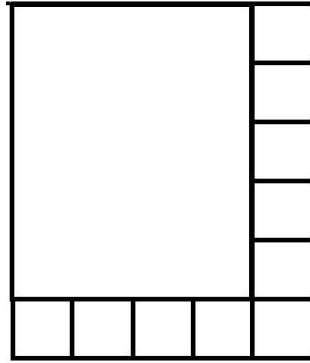
2 (3.7D)

A bag of flour is marked with its weight. Which unit of measure could be used to measure the weight of a bag of flour?

- A** Gallons
- B** Pounds
- C** Liters
- D** Inches

3 (3.6C)

A rectangle is covered in same size squares. Part of the squares are shown.



Which statement is true?

F The rectangle will have 5 rows of 5 squares each with a total area of 25 square units.

G The rectangle will have 6 rows of 4 squares each with a total area of 24 square units.

H The rectangle will have 6 rows of 5 squares each with a total area of 30 square units.

J There are not enough squares shown to figure out the total area.

Spiral 95

1 (3.7E)

Students measured the heaviness of a rock sample in science class.

Which unit of measure did they use?

A grams

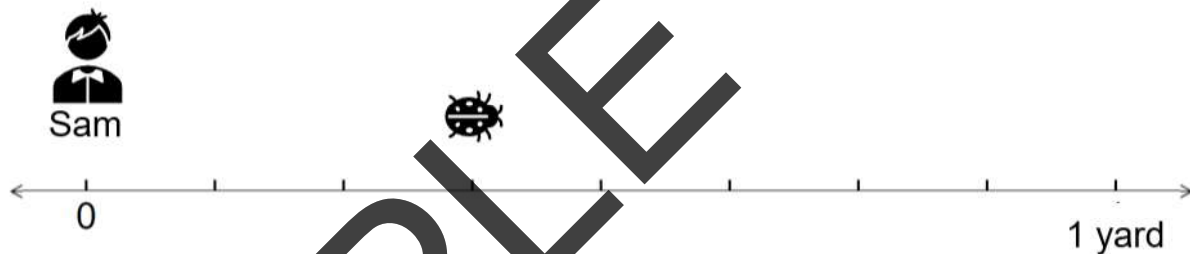
B meters

C cups

D inches

2 (3.7A)

Sam watched a ladybug cross the sidewalk.



Based on the model, how far is the ladybug from Sam?

F $\frac{5}{8}$ -yard

G $\frac{3}{8}$ -yard

H 3 yards

J $\frac{1}{2}$ -yard

3 (3.7C)

Luz checked on her cake at 4:10 P.M. The cake had been in the oven for 25 minutes.



At what time did Luz put the cake in the oven?

- A** 4:35 P.M.
- B** 3:45 P.M.
- C** 3:40 P.M.
- D** 3:85 P.M.

Spiral 96

1 (3.7D)

Each dog at the dog show must be weighed before the show. Which unit of measure would be best to measure the weight of each dog?

F Gallons

G Kilometers

H Kilograms

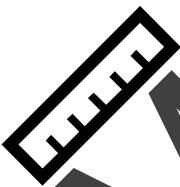
J Miles

2 (3.7E)

Maria used a tool to measure the amount of water needed for a science experiment.

Which tool did Maria use?

A



B



C

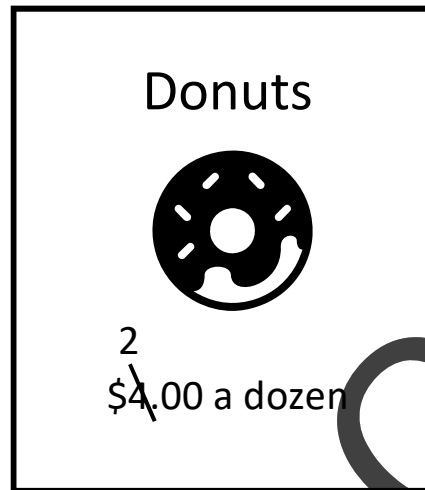


D



3 (3.9E)

The sign is on the counter of the local donut shop right before closing.



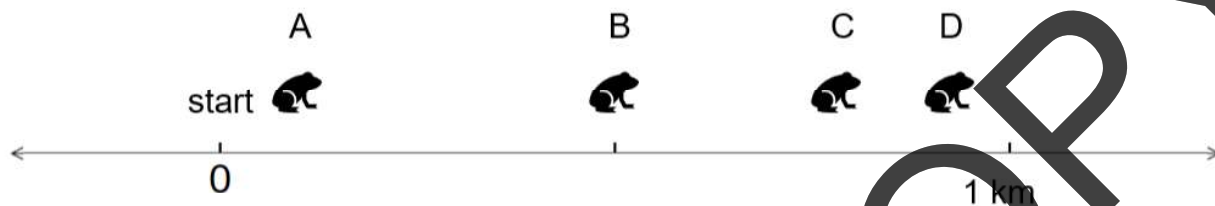
What is the most likely reason for the price change?

- F** The owner has run out of donuts at the end of the day.
- G** The owner wants to save some of the donuts for the next day.
- H** The owner has extra donuts and wants to sell them before closing.
- J** The owner wants to treat his friends to donuts.

Spiral 97

1 (3.7A)

The model shows the frogs in a jumping contest.

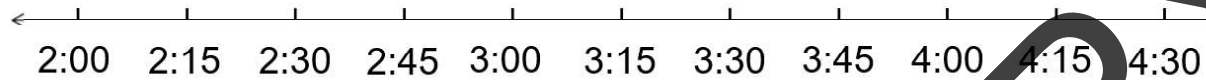


Which frog is closest to $\frac{1}{2}$ -kilometer from the start?

- A Frog A
- B Frog B
- C Frog C
- D Frog D

2 (3.7C)

Raymond and Caleb finished the bike ride at 4:15 P.M. Caleb completed the ride in 1 hour. Raymond started riding 45 minutes before Caleb.



At what time did Raymond start riding?

F 3:30 P.M.

G 3:45 P.M.

H 2:30 P.M.

J 4:00 P.M.

3 (3.7D)

Eliza wants to measure the amount of milk left in the carton. Which unit of measure should she use?

A She should use inches, because she wants to know the length of the carton.

B She should use meters, because she wants to know how far the milk will go.

C She should use pounds, because she wants to know the weight of the milk.

D She should use cups, because the milk is a liquid, and she wants to know how much there is.

Spiral 98

1 (3.4F)

Alejandro and five friends equally divided 30 cookies. How many cookies did each person get?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.7E)

Allie used a graduated cylinder to measure the amount of water in the school aquarium.

What unit of measure did she use?

A meter

B gram

C liter

D foot

SAMPLE COPY

3 (3.7A)

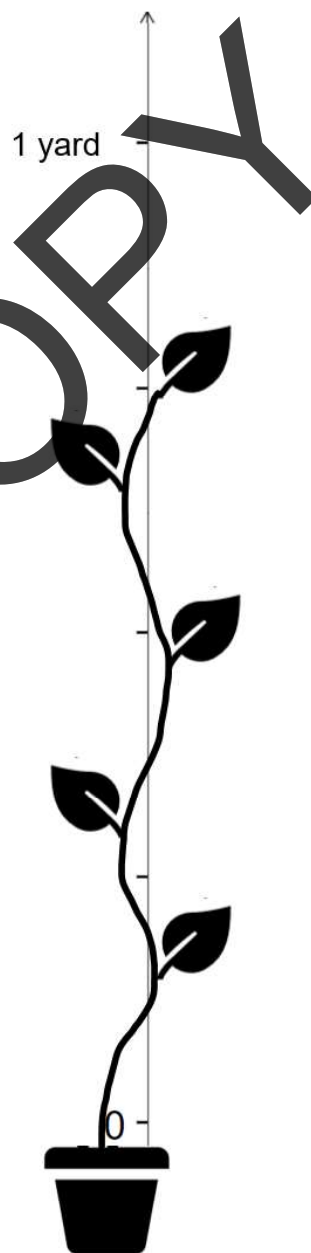
A vine is growing up a pole. About how far is the top leaf from the top of the flowerpot?

F $\frac{1}{2}$ -yard

G $\frac{1}{4}$ -yard

H 3 yards

J $\frac{3}{4}$ -yard



Spiral 99

1 (3.7C)

The table shows the amount of time Jesse spent reading each evening.

Reading Log

Day	Minutes Reading
Monday	20
Tuesday	25
Wednesday	15
Thursday	20
Friday	25

What is Jesse's total reading time for the week?

- A 1 hour 5 minutes
- B 1 hour 15 minutes
- C 2 hours 10 minutes
- D 1 hour 45 minutes

2 (3.5E)

The table shows the numbers Jason started with in a math game, and the number he made after following a rule.

Math Rule

Original Number	56	72	85	99
New Number	44	60	63	87

What rule did Jason follow to get the new numbers in the table?

F Jason's rule is to add 12 to each number.

G Jason's rule is to subtract 14 from each number.

H Jason's rule is to subtract 12 from each number.

J Jason's rule is to add 16 to each number.

3 (3.7D)

What number goes in the to make a true statement?

$$56 \div \square = 28$$

A 2

B 12

C 6

D 3

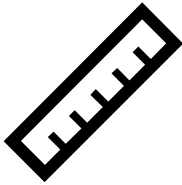
Spiral 100

1 (3.7E)

Ray used a tool to determine which of two soil samples is heavier.

Which tool did Ray use?

F



G



H



J



2 (3.7E)

Which measurement should be done with a scale?

A the length time it takes water to move through a soil sample

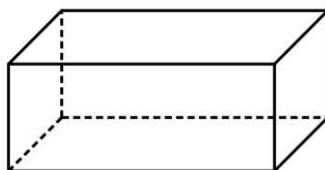
B the distance around a garden

C the weight of a turtle

D the amount of liquid dish soap in a bottle

3 (3.6A)

A rectangular prism is shown.



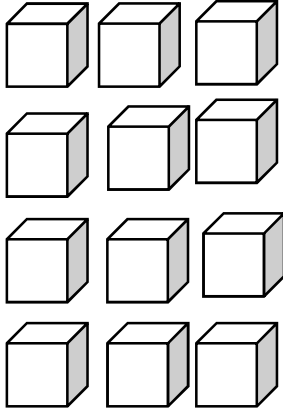

Which statement is NOT true.

- F** The prism has 6 rectangular faces.
- G** The prism has 8 vertices.
- H** The prism has length, width, and height.
- J** The prism can also be called a cube.

Spiral 101

1 (3.2A)

Ray placed blocks on a place value mat to represent a number.

Thousands	Hundreds	Tens	Ones
			

What is Ray's number in standard form?

A 12,060

B 1,260

C 120,060

D 12,600

2 (3.3A)

Alan shaded a strip diagram to represent a fraction.



What fraction of the strip diagram is shaded?

F $\frac{5}{3}$

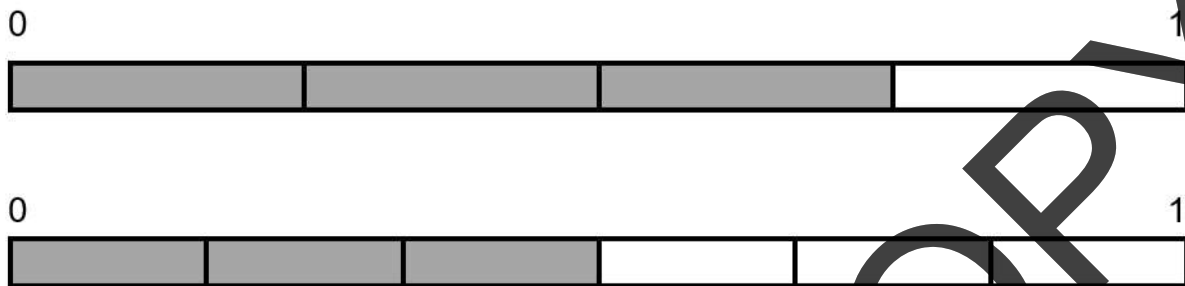
G $\frac{3}{5}$

H $\frac{5}{8}$

J $\frac{3}{8}$

3 (3.3H)

The strip diagrams are shaded to show two fractions.



Based on the models, which statement is NOT true?

- A** $\frac{3}{4} > \frac{3}{6}$, because fourths are larger than sixths.
- B** Three parts of a whole that has been divided into six pieces is smaller than three parts of a whole that has been divided into four pieces.
- C** $\frac{3}{4} < \frac{3}{6}$, because fourths are smaller than sixths.
- D** Three parts of a whole that has been divided into four pieces is larger than three parts of a whole that has been divided into six pieces.

Spiral 102

1 (3.4A)

Anika collected seashells on her trip to the beach.

- 4 sand dollars
- 9 whelks
- 22 scallops
- 28 olives
- 15 conchs

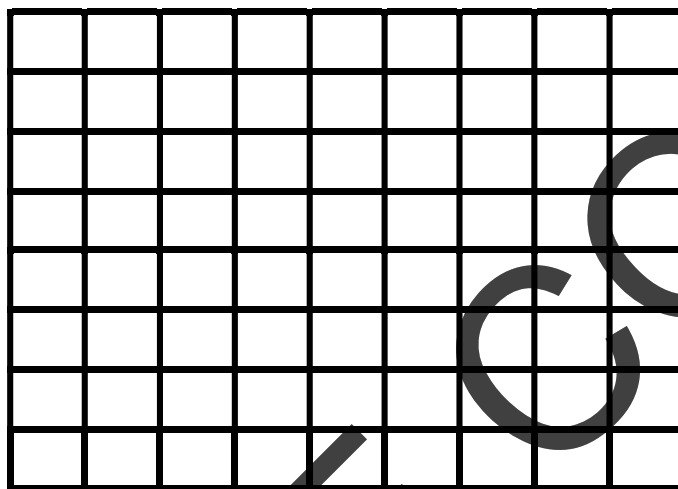
How many shells did Anika collect?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

2 (3.4D)

The array represents the number of folders Mrs. Chambers bought for her third-grade class.



How many folders did Mrs. Chambers buy?

A 72

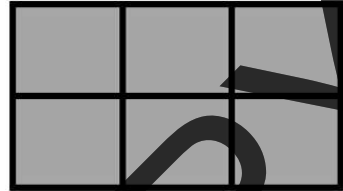
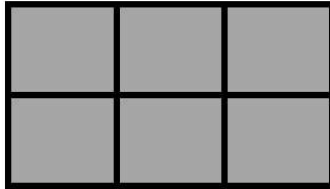
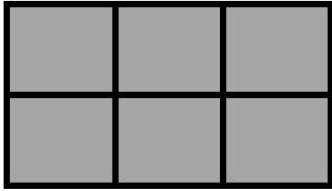
B 81

C 54

D 63

3 (3.4E)

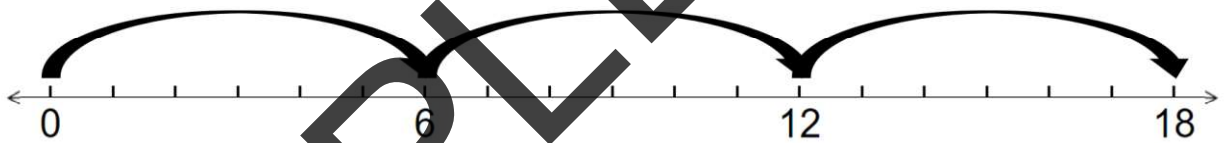
Oliver used the model below to represent a multiplication fact.



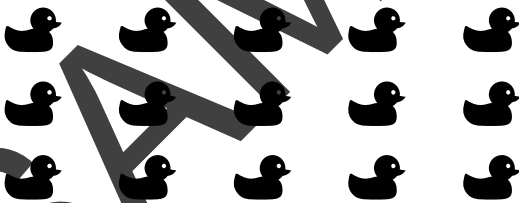
Which of the models below could be used to represent the same fact?

F $6 + 6 + 6 + 6$

G



H



J $3 \times 3 \times 3$

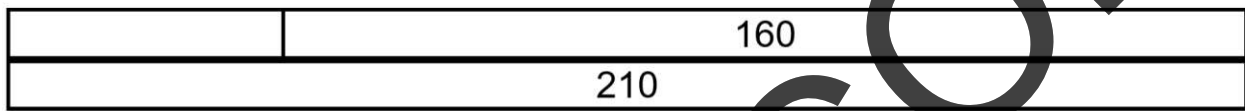
Spiral 103

1 (3.5A)

Miles plants 160 pansy plants in the school flower bed. He has 120 plants left to plant.

Which model can be used to find the total number of pansy plants Miles had before he started planting?

A



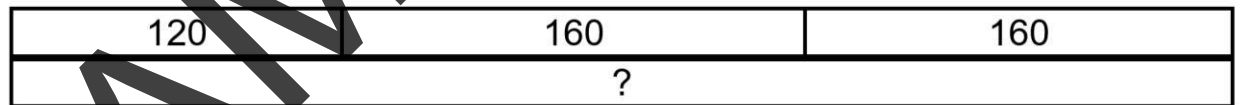
B



C



D



2 (3.2B)

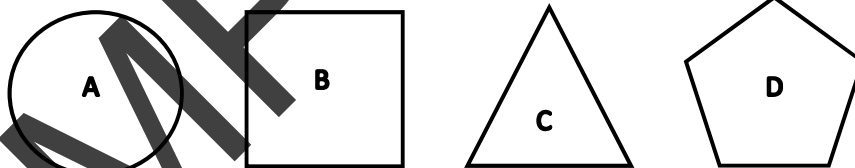
What is the relationship between the ten thousands place and the thousands place in the number shown?

44,121

- A** The value of the digit in the ten thousands place is ten more than the value of the digit in the thousands place.
- B** The value of the digit in the ten thousands place is equal to the value of the digit in the thousands place.
- C** The value of the digit in the ten thousands place is ten times the value of the digit in the thousands place.
- D** The value of the digit in the ten thousands place is four times the value of the digit in the thousands place.

3 (3.6A)

A group of shapes is shown.



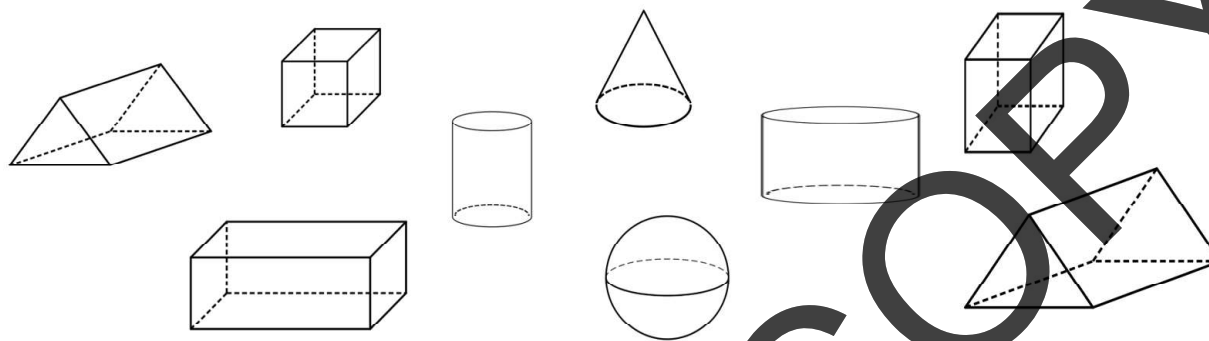
Which of these shapes is NOT a polygon.

- A** Shape A, because it does not have straight sides.
- B** Shape B, because it is a quadrilateral.
- C** Shape C, because it only has 3 sides.
- D** Shape D, because it has more than 4 sides.

Spiral 104

1 (3.6A)

A group of shapes is shown.



Which table shows the number of each shape in the group?

F

Number of Shapes

Shape	Number
sphere	1
cylinder	2
cone	1
rectangular prism	3
triangular prism	1

G

Number of Shapes

Shape	Number
sphere	1
cylinder	2
cone	1
rectangular prism	3
triangular prism	2

H

Number of Shapes

Shape	Number
sphere	2
cylinder	1
cone	1
rectangular prism	3
triangular prism	2

J

Number of Shapes

Shape	Number
sphere	1
cylinder	2
cone	1
rectangular prism	2
triangular prism	3

2 (3.5E)

A florist records the number of flowers in relation to the number of vases used.

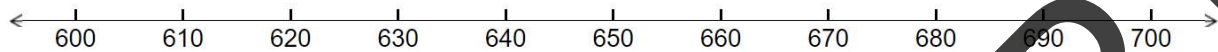
Florist Records

Vases	3	5	9	20
Flowers	24	40	72	160

- A** The number of flowers is 21 more than the number of vases.
- B** The number of flowers is 8 times the number of vases.
- C** The number of vases is 8 times the number of flowers.
- D** The number of vases is 21 less than the number of flowers.

3 (3.2C)

Six hundred fifty-nine people attended a soccer match.



If this number is marked on the number line above, between what two numbers would it be placed?

F 650 and 660

G 640 and 650

H 630 and 640

J 660 and 670

Spiral 105

1 (3.8A)

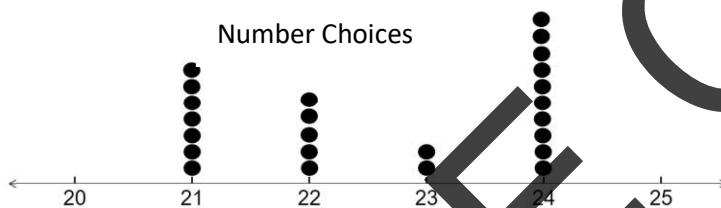
The frequency table shows the results when students were asked to choose a number between 20 and 25.

Number Choices

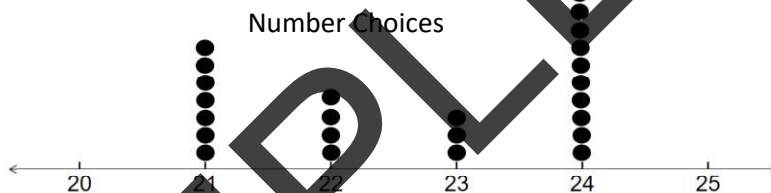
Number	Frequency
21	/// //
22	///
23	//
24	/// ///

Which dot plot best represents the data in the frequency table?

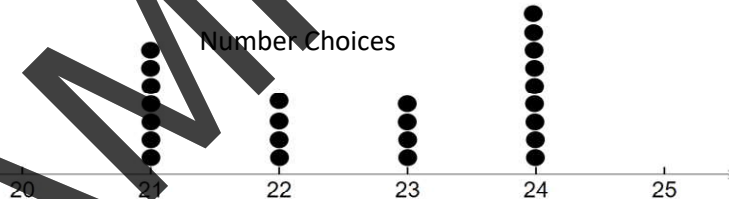
A



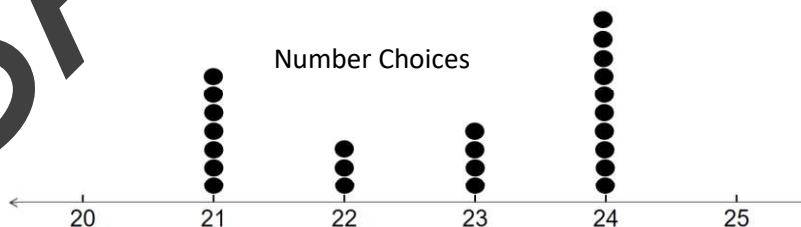
B



C



D



2 (3.7C)

The clock shows the time Tildy started cleaning Tuesday morning.



- Mopping 15 minutes
- Dusting 25 minutes
- Vacuuming 30 minutes

What time did Tildy finish cleaning?

F 10:15 A.M.

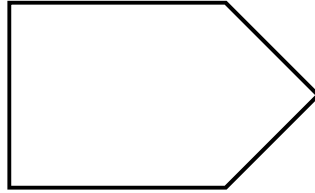
G 10:30 A.M.

H 10:20 A.M.

J 9:80 A.M.

3 (3.6B)

A shape is shown.



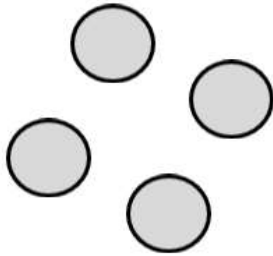
Which statement is correct?

- A** The shape belongs to the rhombus, square, trapezoid, and rectangle group, because it is a four-sided polygon.
- B** The shape does not belong to the rhombus, square, trapezoid, and rectangle group, because it has five sides.
- C** The shape does not belong to the rhombus, square, trapezoid, and rectangle group, because it is not a polygon.
- D** The shape does belong to the rhombus, square, trapezoid, and rectangle group, because two pairs of sides are congruent.

Spiral 106

1 (3.3E)

Rachel and three other girls equally shared the gumballs shown below. What fraction of the gumballs did each girl get?



F $\frac{3}{4}$

G $\frac{2}{4}$

H $\frac{1}{3}$

J $\frac{1}{4}$

2 (3.4K)

Eight plants each have 4 flowers. Each flower has 3 ladybugs. How many ladybugs are there?

A 88

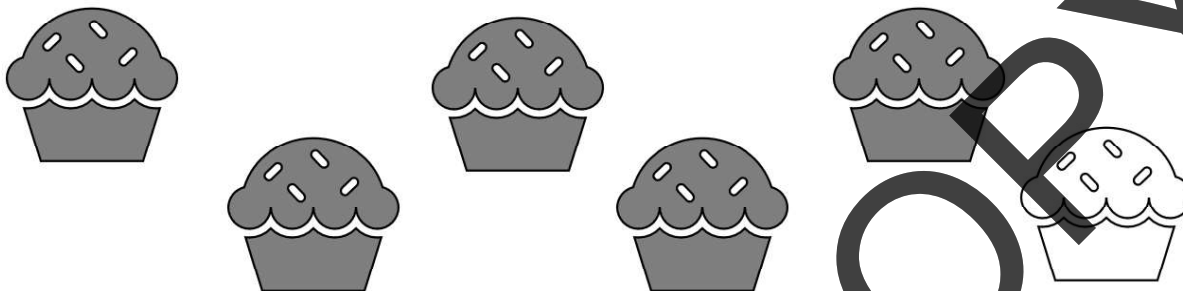
B 12

C 35

D 96

3 (3.3D)

Ramon made 6 cupcakes. The shaded cupcakes represent the fraction of the cupcakes that Ramon gave to his friends.



Which expression represents the fraction of the cupcakes that Ramon gave to his friends?

F $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

G $\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

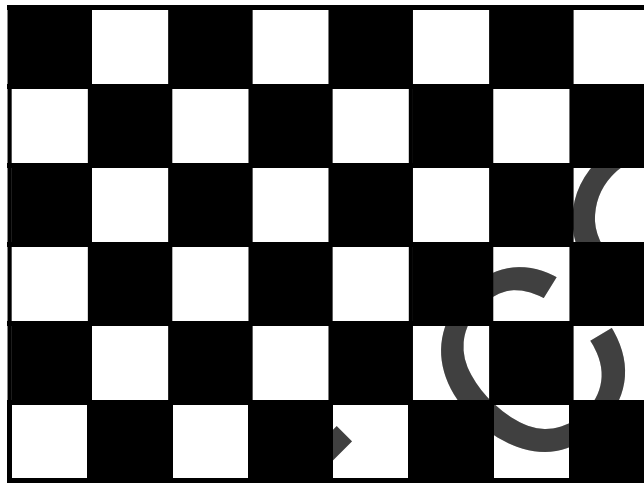
H $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

J $\frac{1}{6} + \frac{6}{1}$

Spiral 107

1 (3.6C)

The flag used to start a race is covered in small squares.

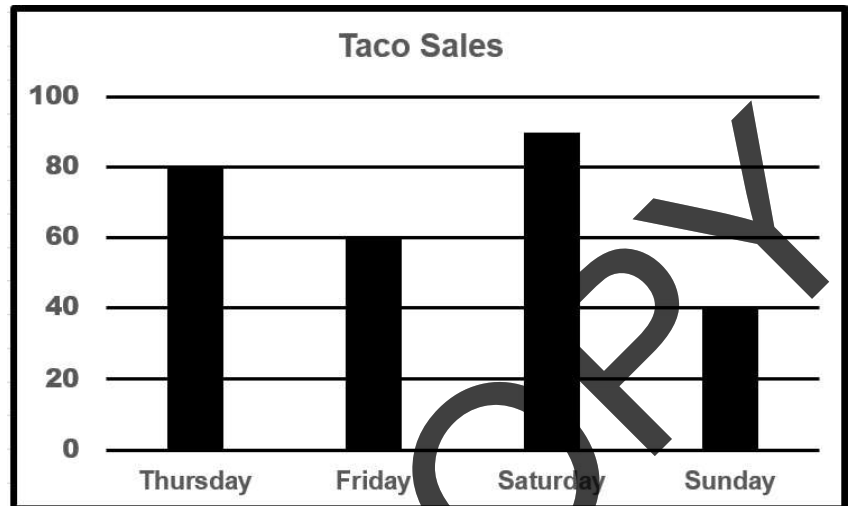


What is the total area of the flag in square units?

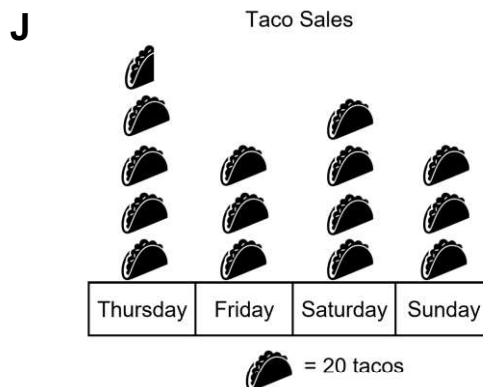
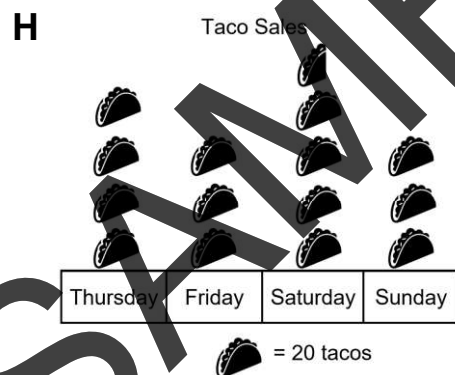
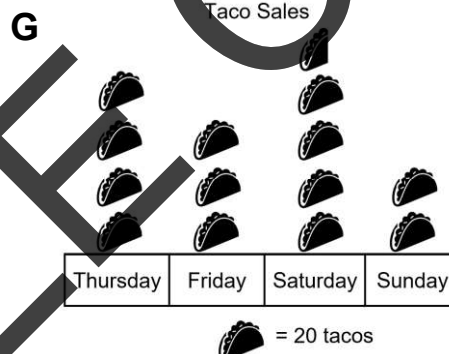
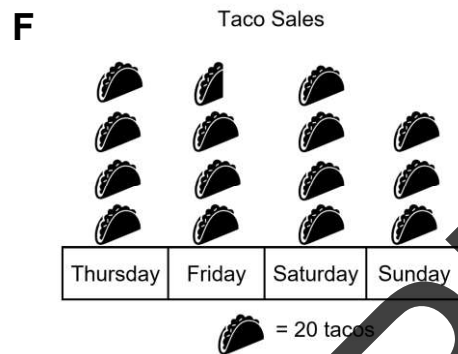
- A 54 square units
- B 72 square units
- C 49 square units
- D 48 square units

2 (3.8A)

The graph shows the number of tacos sold over four days.

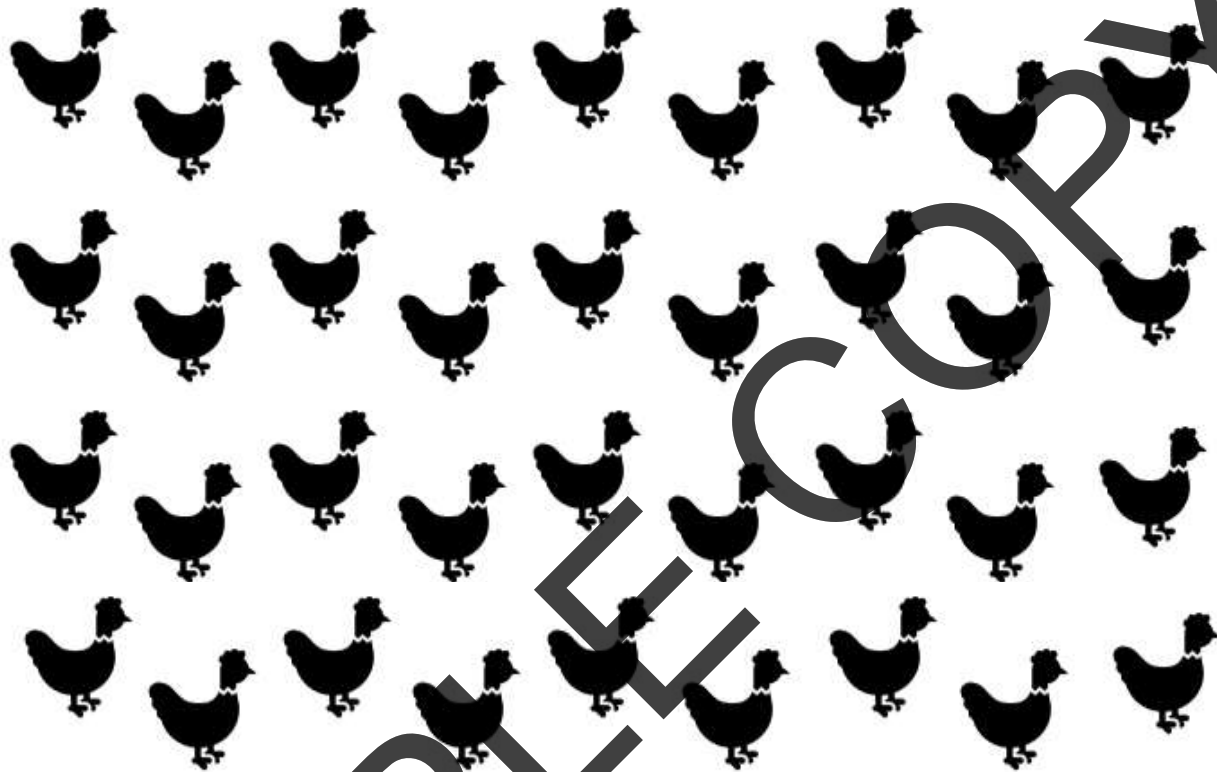


Which graph best represents the same data?



3 (A3.4H)

Valerie has 36 chickens. The picture shows the total number of chickens.



If Valerie divides the chickens evenly into 2 pens, how many chickens does she put in each pen?

A 12

B 20

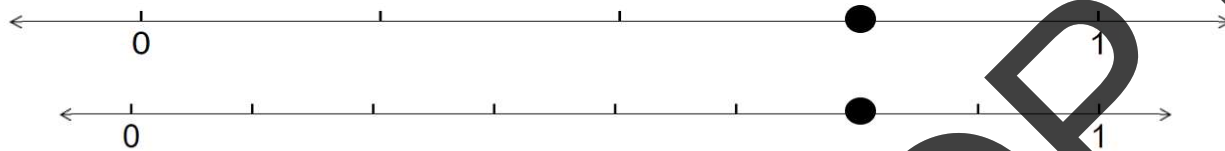
C 18

D 16

Spiral 108

1 (3.3G)

The model represents two fractions.



Which statement about the two fractions is correct?

F The two fractions are equivalent, because they represent the same point on the number line.

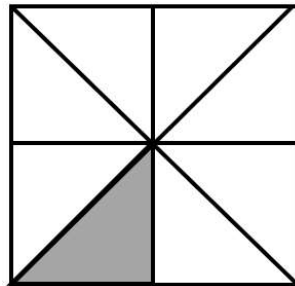
G The two fractions are equivalent, because they are both part of the same whole.

H The two fractions are not equivalent, because the dots represent different places on the two number lines.

J The two fractions are not equivalent, because the number lines are not divided into the same number of pieces.

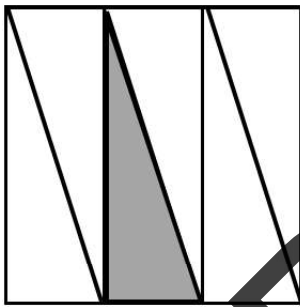
2 (3.6E)

Elena drew two congruent squares and shaded the same fraction amount of each square. This is one of Elena's squares.

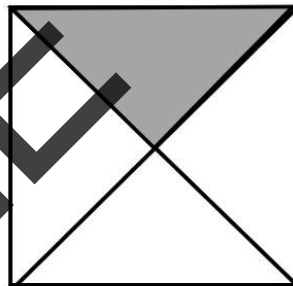


Which of these could be Elena's other square?

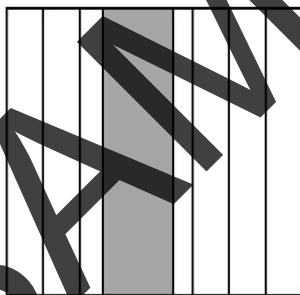
A



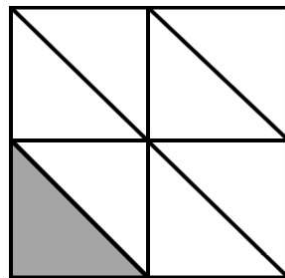
B



C



D



3 (3.3F)

The strip diagram models the fraction $\frac{6}{8}$.



Which strip diagram models a fraction equivalent to $\frac{6}{8}$?

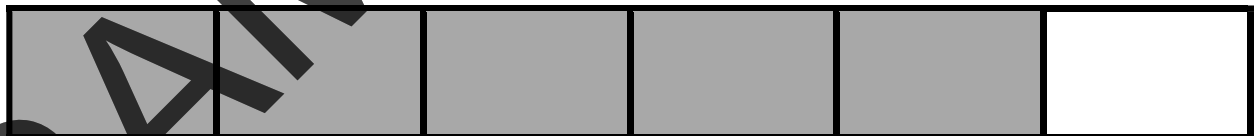
F



G



H



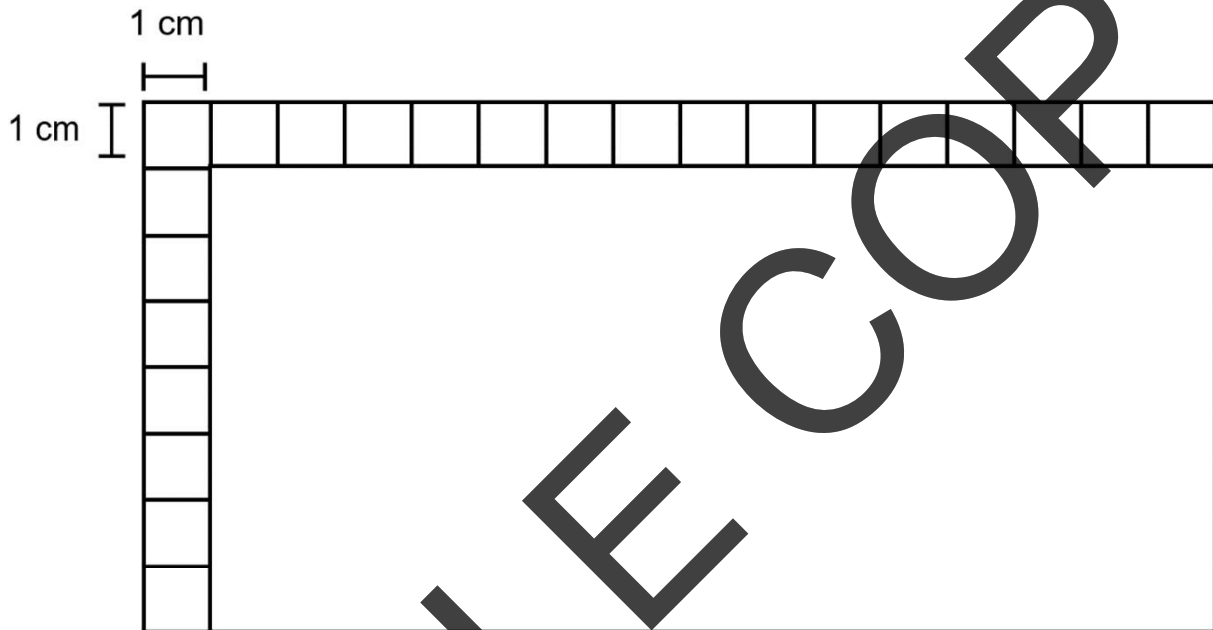
J



Spiral 109

1 (3.6C)

A rectangle is covered in squares. Each square has an area of one square centimeter. Some of the squares are shown.



What is the area of the rectangle in square centimeters?

- A 128 square centimeters
- B 64 square centimeters
- C 24 square centimeters
- D 112 square centimeters

2 (3.4I)

Mason's teacher wrote these numbers on the board.

3, 9, 18, 21, 27

Which is NOT an odd number from the list?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

3 (3.5B)

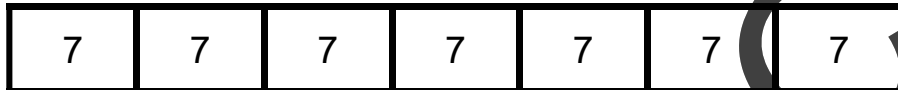
Mia spent \$2 on ice cream each day for 7 days.

Which diagram can be used to determine how much Mia spent on ice cream in all?

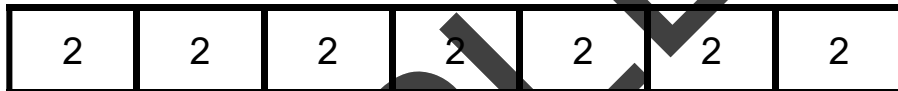
A



B



C



D



Spiral 110

1 (3.5B)

Six trees each have 3 nests. Each nest has 7 eggs. Which number sentence can be used to find the total number of eggs?

F $6 \times 3 - 7 = \square$

G $6 + 3 + 7 = \square$

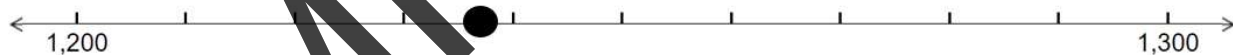
H $6 \times 3 + 7 = \square$

J $6 \times 3 \times 7 = \square$

$6 \times 3 \times 7 = \square$

2 (3.2C)

The point on the number line represents the number of aluminum cans collected for recycling in April.



Which statement does NOT describe the number of cans collected?

A The number of cans is greater than 1,000.

B The number of cans is between 1,230 and 1,240.

C The number of cans is greater than 1,400.

D The number of cans is closer to 1,200 than 1,300.

3 (3.2B)

What is the relationship between the ten thousands place and the thousands place in the number shown?

66,066

F The value of the digit in the ten thousands place is ten less than the value of the digit in the thousands place.

G The value of the digit in the ten thousands place is equal to the value of the digit in the thousands place.

H The value of the digit in the thousands place is ten times the value of the digit in the ten thousands place.

J The value of the digit in the ten thousands place is ten times the value of the digit in the thousands place.

Spiral 111

1 (3.4K)

Amber bought 6 packages of gum with 8 pieces in each package. If she divides the gum equally between herself and 3 friends, how many pieces of gum does each person get?

A 16

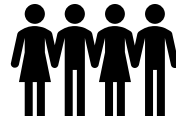
B 12

C 4

D 18

2 (3.4D)

For a game in PE the coach put students into groups of four.



If there were seven groups, how many students were there?

F 26

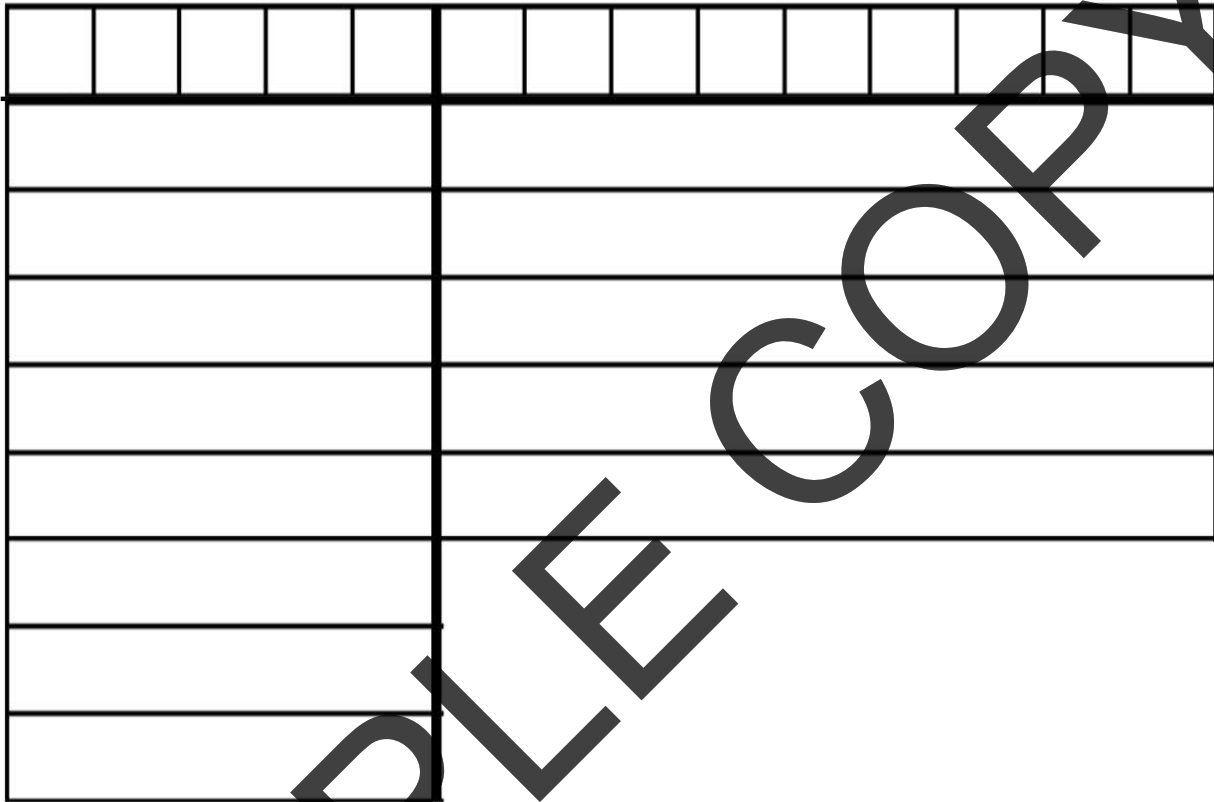
G 28


H 24

J 27

3 (3.6D)

Two rectangles are covered in same size squares. Each square has an area of 1 square foot. Some of the squares are shown.



 = 1 square foot

What is the total area of the two rectangles in square feet?

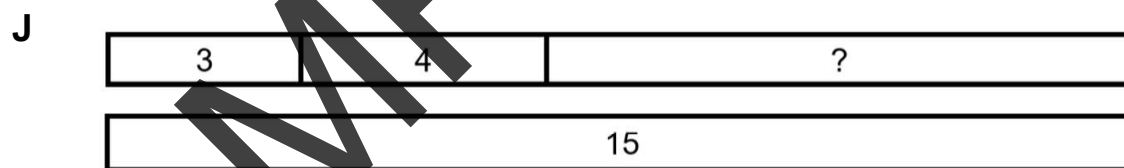
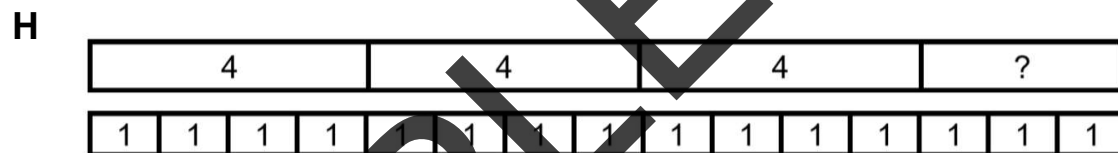
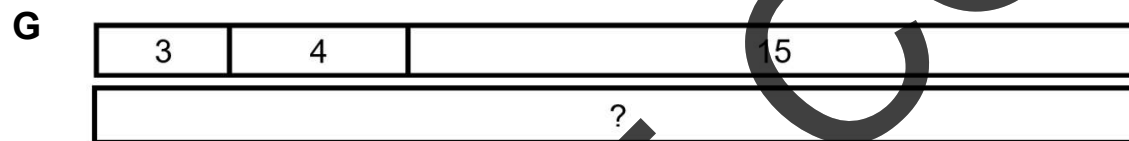
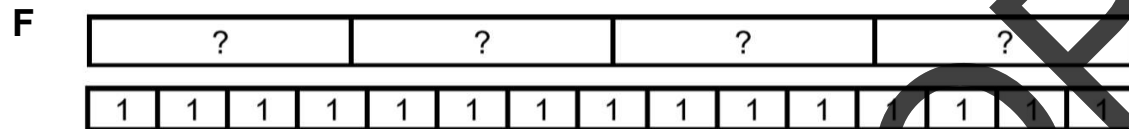
- A 100 square feet
- B 126 square feet
- C 27 square feet
- D 99 square feet

Spiral 112

1 (3.5B)

Ryan has \$15. He buys 3 bags of kettle corn for \$4 each.

Which diagram can be used to determine the amount he has left from \$15?



2 (3.5D)

For which equation could 6 go in the to make the equation true?

A $72 \div \square = 24$

B $12 \times \square = 33$

C $\square \times 9 = 54$

D $29 \div 9 = \square$

SAMPLE COPY

3 (3.7A)

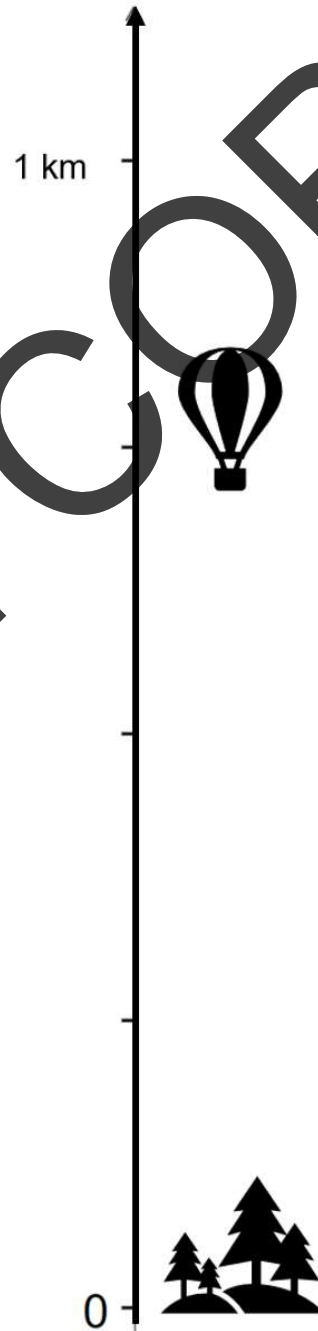
The model represents height of a hot air balloon. About how far is the balloon above the ground.

F $\frac{1}{2}$ -kilometer

G $\frac{3}{4}$ -kilometer

H 3 kilometers

J $\frac{1}{4}$ -kilometer



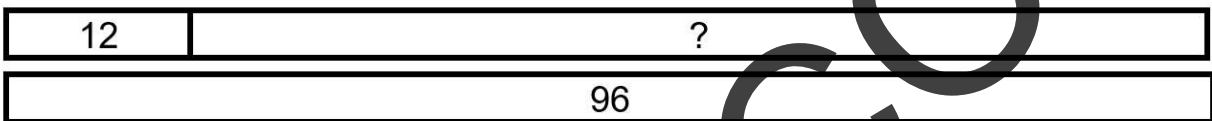
Spiral 113

1 (3.5B)

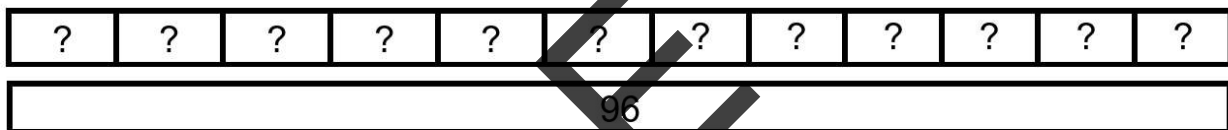
Scarlett made 12 cupcakes. She put the same number of decorations on each cupcake. She used 96 decorations.

Which diagram can be used to find the number of decorations Scarlett put on each cupcake?

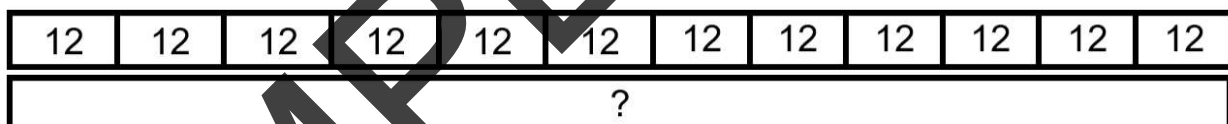
A



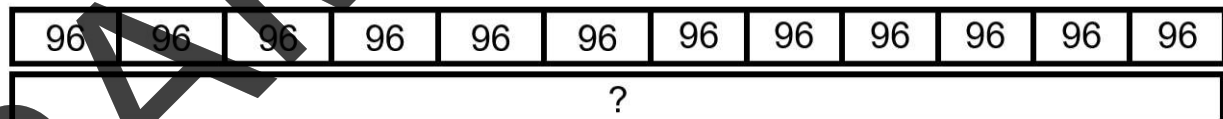
B



C



D



2 (3.3C)

Which unit fraction represents one part of a whole that is divided into eight equal parts?

F $\frac{1}{6}$

G $\frac{1}{4}$

H $\frac{1}{3}$

J $\frac{1}{8}$

SAMPLE COPY

3 (3.7B)

An ad for dog training is shown.



Use the ruler provided to measure the length and width of the ad to the nearest inch.

Which measurement is closest to the perimeter of the ad to the nearest inch?

- A 14 inches
- B 12 inches
- C 7 inches
- D 15 inches

Spiral 114

1 (3.7C)

Noah started work on his class project at 6:15 P.M. He worked for 50 minutes, ate dinner for 30 minutes, and worked 25 more minutes. Which clock shows the time Noah finished working on his project?

F



G



H

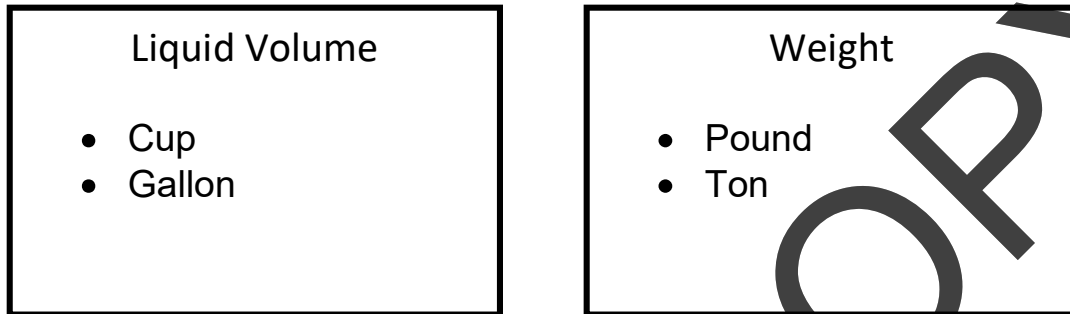


J



2 (3.7D)

Jerome sorts units of measure into two groups.



Which unit could Jerome add to the Liquid Volume group?

A mile

B centimeter

C kilogram

D liter

3 (3.4K)

Devon has 3 pages of stickers with 12 stickers on each page. He shares the stickers equally between himself and 3 friends. How many stickers does each person get?

F 12

G 36

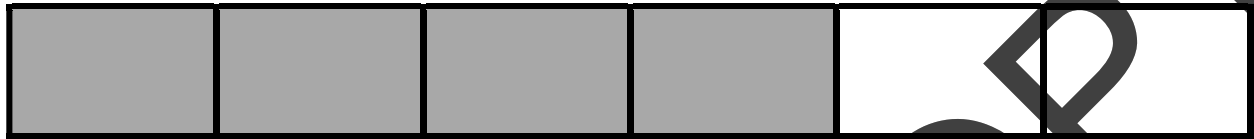
H 9

J 33

Spiral 115

1 (3.3F)

The strip diagram models the fraction $\frac{4}{6}$.



Which strip diagram models a fraction equivalent to $\frac{4}{6}$?

A



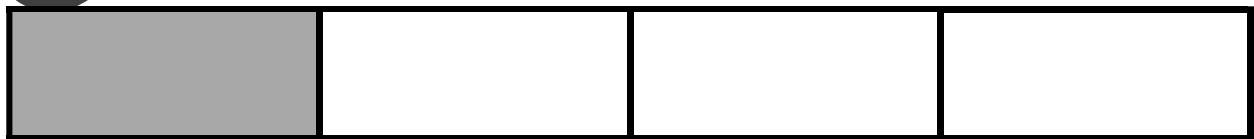
B



C



D



2 (3.4A)

Darius and Paul kept a record of the money they each spent on a weekend camping trip.

Camping Cost

	Darius	Paul
campsite fee	\$28	\$36
food	\$45	\$32
gear	\$143	\$103
clothes	\$54	\$28

How much more did Darius spend than Paul?

F \$170

G \$199

H \$71

J \$84

3 (3.5C)

Periza read 24 pages on Saturday and read 4 times that many pages on Sunday.

Which expression shows the number of pages Periza read on Sunday?

A $24 \div 3$

B $24 - 3$

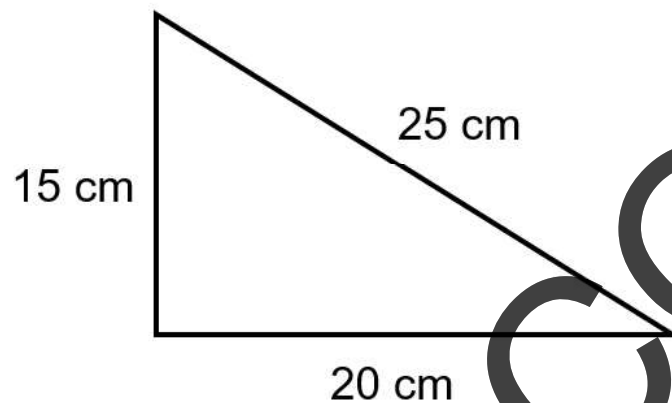
C 24×3

D $24 + 3$

Spiral 116

1 (3.7B)

The length of each side of a triangle is shown.



Which statement about the perimeter of the triangle is true?

- F** The perimeter equals the product of all three sides of the triangle.
- G** The perimeter equals the sum of all three sides of the triangle divided by 3.
- H** The perimeter equals the difference between the longest and shortest sides of the triangle.
- J** The perimeter equals the sum all three sides of the triangle.

2 (3.6A)

Pamela sorted shapes into three groups.

Groups of Shapes	
Group	Characteristic
1	has two triangular faces
2	has at least one circular face
3	all faces are rectangular

Which shapes should Pamela put in Group 2?

- A** a cone, but not a cylinder
- B** a cube
- C** a cone and a cylinder
- D** a cone, a cylinder, and a sphere

3 (3.7E)

Which would NOT be measured in liters?

- F** the amount of water in a pool
- G** the amount of soda in a bottle
- H** the weight of a puppy
- J** the amount of milk in a container

Spiral 117

1 (3.4B)

Deondre needs \$583 to attend summer camp. He has \$452. What is the best estimate for the difference between what Deondre needs and what he has?

A \$120

B \$210

C \$80

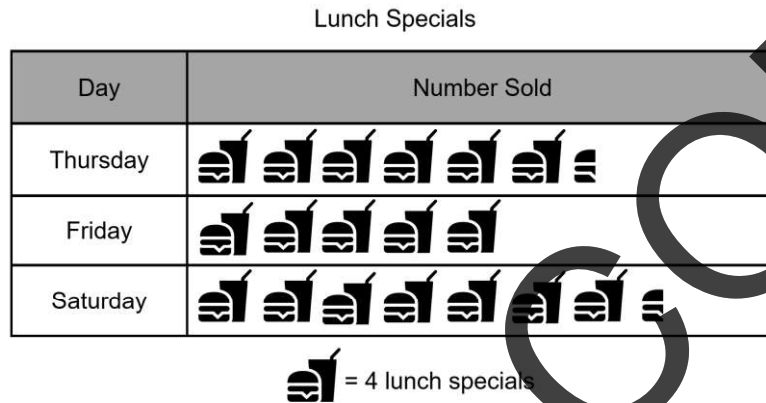
D \$130

SAMPLE COPY

2 (3.8B)

The Snack Bar at the ballpark sells a lunch special with a small hamburger and drink.

The pictograph represents the number of lunch specials sold over three days.



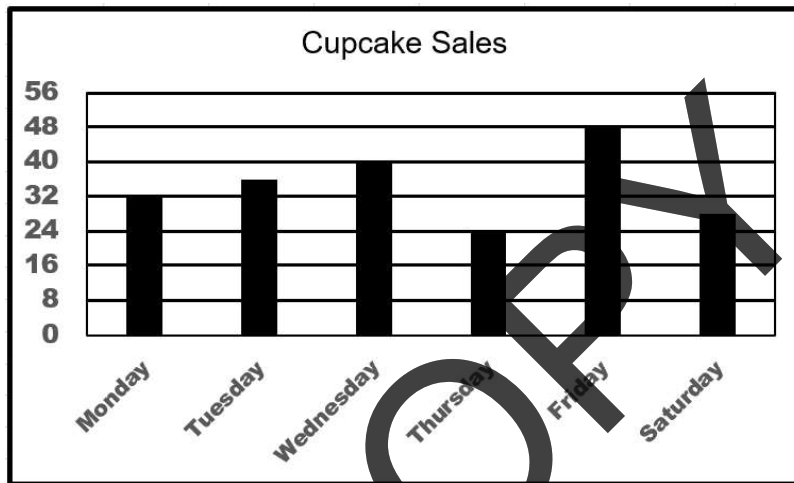
If each lunch special costs \$3, how much was spent on lunch specials on Thursday?

Record your answer and fill in the bubbles. Be sure to use the correct place value.

			.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

3 (3.8A)



























The bar graph shows the number of cupcakes sold each day.



Which pictograph best represents the data shown in the bar graph?

A


























Cupcake Sales

Day	Number
Monday	   
Tuesday	   
Wednesday	    
Thursday	   
Friday	    
Saturday	   

 = 8 cupcakes

B





























Cupcake Sales

Day	Number
Monday	   
Tuesday	  
Wednesday	    
Thursday	   
Friday	    
Saturday	   

 = 8 cupcakes

C



























Cupcake Sales

Day	Number
Monday	   
Tuesday	    
Wednesday	    
Thursday	    
Friday	    
Saturday	   

 = 8 cupcakes

D

Cupcake Sales

Day	Number
Monday	   
Tuesday	    
Wednesday	    
Thursday	  
Friday	    
Saturday	   

 = 8 cupcakes

Spiral 118

1 (3.9A)

Which statement about work and pay is true?

F The fewer hours a worker works, the more she earns.

G The more labor needed, the less a worker earns.

H The less labor needed, the more a worker earns.

J The more hours a worker works, the more she earns.

SAMPLE COPY

2 (3.4C)

Which set of money has a value of \$2.20?

A



B



C

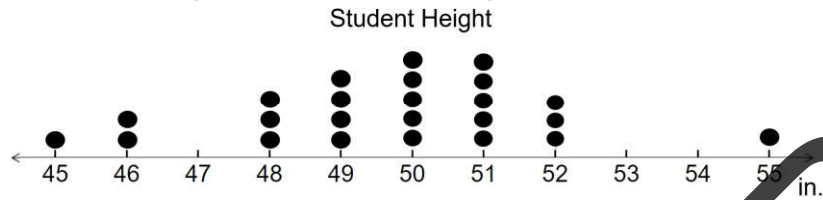


D



3 (3.8A)

The dot plot shows the height in inches of a group of students.



Which table best represents the data in the dot plot?

F Student Height

Height (in.)	Number of Students
<48 inches	3
48 inches	3
49 inches	4
50 inches	5
51 inches	5
52 inches	3
>52 inches	1

G Student Height

Height (in.)	Number of Students
<48 inches	2
48 inches	3
49 inches	4
50 inches	5
51 inches	4
52 inches	3
>52 inches	1

H Student Height

Height (in.)	Number of Students
<48 inches	1
48 inches	3
49 inches	4
50 inches	5
51 inches	5
52 inches	4
>52 inches	1

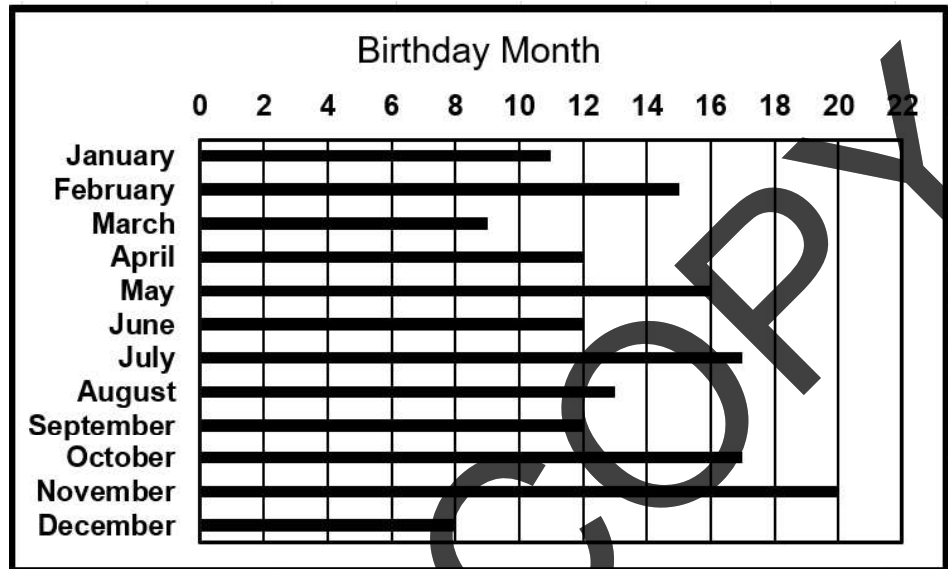
J Student Height

Height (in.)	Number of Students
<48 inches	3
48 inches	3
49 inches	5
50 inches	5
51 inches	4
52 inches	3
>52 inches	1

Spiral 119

1 (3.8A)

The bar graph shows the number of third graders with birthdays each month.



Which frequency table best represents the data in the bar graph for March, April, May, and June?

A

Birthdays				
Month	March	April	May	June
Frequency	///	///	///	///

B

Birthdays				
Month	March	April	May	June
Frequency	///	///	///	///

C

Birthdays				
Month	March	April	May	June
Frequency	///	///	///	///

D

Birthdays				
Month	March	April	May	June
Frequency	///	///	///	///

2 (3.9B)

Bryant graduated from college and owes \$45,000 in student loans.

Which of the following would NOT have been helpful for Bryant?

F He and his parents could have started a savings plan for college when he was young.

G He could have dropped out of college.

H He could have worked while he was in college to pay for his living expenses.

J He can get a good job to help him pay back his debt.

3 (3.9D)

Ebony made a list of words that go with “credit”.

- Borrow
- Repay
- Bank
- Loan

Which word would best complete Ebony’s list?

A gift

B tax

C party

D interest

Spiral 120

1 (3.9E)

Mr. Albers plans to sell part of his rock collection.

- Tanzanite: very rare, found only in Tanzania, crystal blue
- Quartz: common, found almost everywhere; shiny white to pink
- Limestone: very common; white, dull, and chalky

Which statement is most likely true?

F The tanzanite will sell for less than the limestone.

G The quartz will sell for less than the limestone.

H The quartz will bring the best price.

J The tanzanite will bring the best price.

2 (3.8A)

Shaniqua rolled a six-sided die 12 times. The numbers she rolled are shown.

5, 6, 3, 2, 4, 5, 1, 1, 4, 2, 3, 3

Which graph best represents the same information?

A Dice Roll

six	XX
five	X
four	XX
three	XXX
two	XX
one	XX

B Dice Roll

six	X
five	XX
four	XX
three	XX
two	XXX
one	XX

C Dice Roll

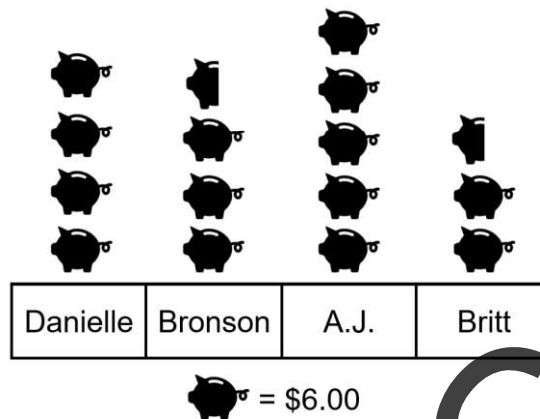
six	X
five	XX
four	XX
three	XXX
two	XX
one	XX

D Dice Roll

six	X
five	XXX
four	XXX
three	XX
two	X
one	XX

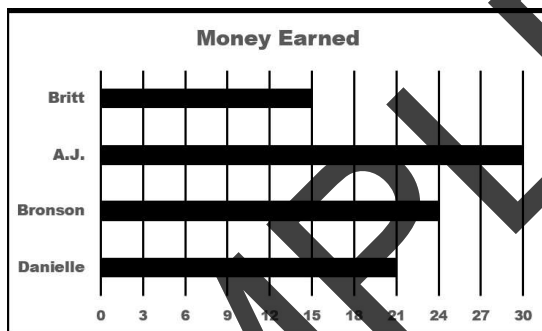
3 (3.8A)

12 The pictograph represents how much each of 4 students earned doing chores.

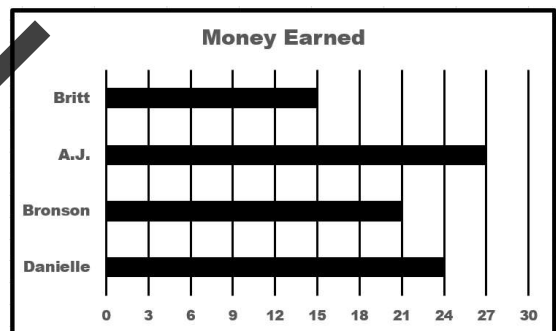


Which bar graph best represents the information in the pictograph?

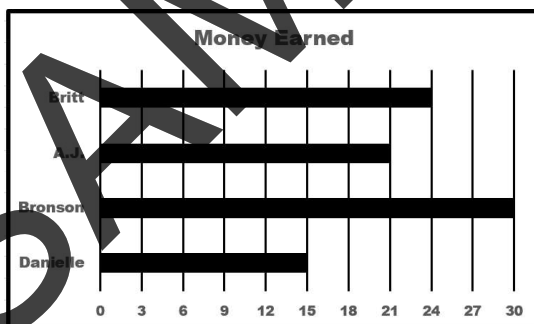
F



G



H



J

