



2014 – Q4

Terrence drew a figure. Each side of the figure is the same length as the line segment below. Use the ruler provided to measure the line segment to the nearest inch.



This figure could be a —

- F square with a perimeter of 6 inches
- G triangle with a perimeter of 6 inches
- H square with a perimeter of 12 inches
- J triangle with a perimeter of 12 inches

2015 – Sample Q19

19 Vivian had a \$5 bill, 3 quarters, 2 dimes, and 5 nickels. She paid for a poster that cost \$5.36. How much money does she have left?

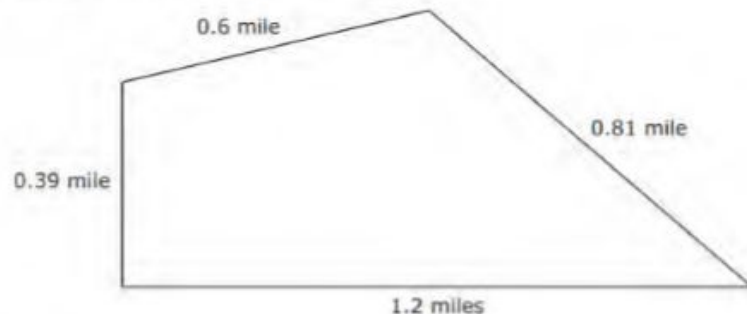
- A \$1.16
- B \$0.84
- C \$6.20
- D \$0.04

38 Tyra opened a new bag of birdseed and filled 3 bird feeders. She put 2,500 grams of birdseed into each feeder. There were 1,500 grams of birdseed left in the bag. What was the mass of the bag of birdseed in kilograms before Tyra opened it?

- F 4 kg
- G 4,000 kg
- H 9 kg
- J 9,000 kg

2013 – Q33

33 The side lengths of a field are shown below.



What is the perimeter of the field?

- A 1.41 mi
- B 3.18 mi
- C 3 mi
- D 2 mi

Which object has

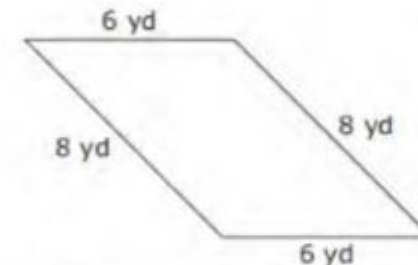
2014 – Q3
2014 – Q44

Melinda drew the figure shown below. The length of each side of the figure is the same as the line segment below.

A
B
C
D
2013 – Q21

2013 – Q27

The side lengths of Terry's sandbox are shown below.



Terry buys 30 yards of fence. Does he have enough fence to go around his sandbox?

- A No, because $8 \times 4 = 32$ and $32 > 30$
- B Yes, because $8 + 6 = 14$ and $14 < 30$
- C No, because $8 \times 6 = 48$ and $48 > 30$
- D Yes, because $8 + 6 + 8 + 6 = 28$ and $28 < 30$

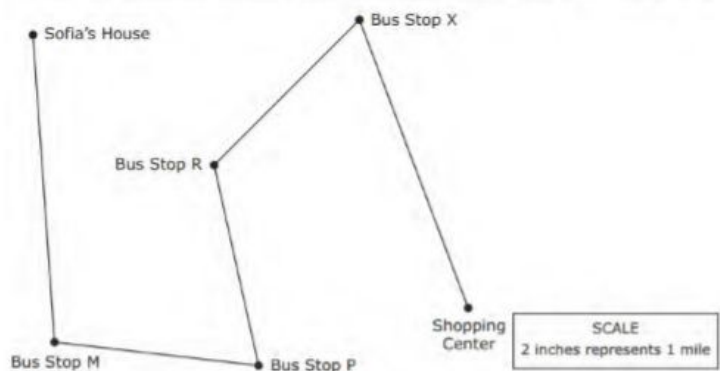
D The perimeter of the rectangle is

- B 6 mi
- C 5 mi
- D 12 mi



2013 – Q21

21 The diagram below models the bus route Sofia takes to get from her house to a shopping center. Use the ruler provided to measure Sofia's route to the nearest inch.

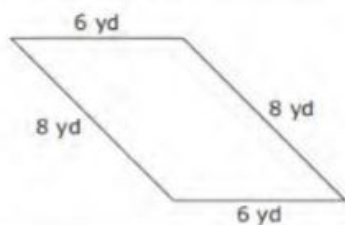


If 2 inches in the drawing represents 1 mile, which distance is closest to the length of the actual bus route Sofia takes to get from her house to the shopping center?

- A 24 mi
- B 6 mi
- C 5 mi
- D 12 mi

2013 – Q27

The side lengths of Terry's sandbox are shown below.



Terry buys 30 yards of fence. Does he have enough fence to go completely around his sandbox?

- A No, because $8 \times 4 = 32$ and $32 > 30$
- B Yes, because $8 + 6 = 14$ and $14 < 30$
- C No, because $8 \times 6 = 48$ and $48 > 30$
- D Yes, because $8 + 6 + 8 + 6 = 28$ and $28 < 30$

2014 – 2014 – Q44

Which object has the same length as the ruler shown below?

Adam has around the same amount of money as the ruler shown below.

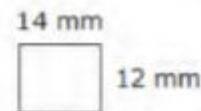
Melinda drew the figure shown below. What is the length of each side of the figure?

2013 – Q10

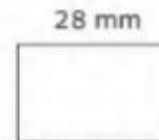


2013 – Q15

The dimensions of two rectangles are shown below.



Rectangle Q



Rectangle R

Which statement about these rectangles is true?

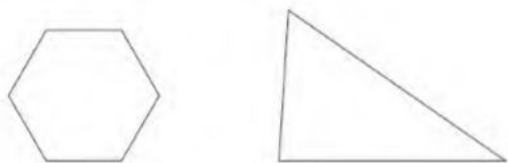
G

- A The perimeter of Rectangle Q is 19 millimeters less than the perimeter of Rectangle R.
- B The perimeter of Rectangle Q is 38 millimeters less than the perimeter of Rectangle R.
- C The perimeter of Rectangle Q is 14 millimeters less than the perimeter of Rectangle R.
- D The perimeter of Rectangle Q is 42 millimeters less than the perimeter of Rectangle R.



2013 – Q10

Use the ruler provided to measure the side lengths of the figures below to the nearest centimeter.

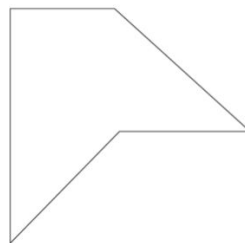


What is the difference between the perimeters of these figures?

- F 2 cm
- G 9 cm
- H 29 cm
- J 5 cm

2014 – Q44

Melinda drew the figure shown below. Use the ruler provided to measure the length of each side of the figure to the nearest centimeter.

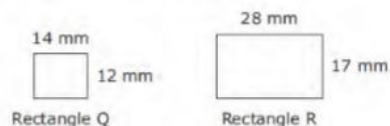


What is the perimeter in centimeters of the figure Melinda drew?

- F 45 cm
- G 31 cm
- H 36 cm
- J 26 cm

2013 – Q15

The dimensions of two rectangles are shown below.

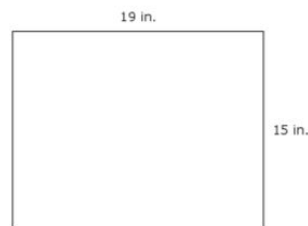


Which statement about these rectangles is true?

- A The perimeter of Rectangle Q is 19 millimeters less than the perimeter of Rectangle R.
- B The perimeter of Rectangle Q is 38 millimeters less than the perimeter of Rectangle R.
- C The perimeter of Rectangle Q is 14 millimeters less than the perimeter of Rectangle R.
- D The perimeter of Rectangle Q is 42 millimeters less than the perimeter of Rectangle R.

2014 – Q34

Adam has 60 inches of ribbon. He wants to use the ribbon to make a border around the perimeter of a rectangular picture. The dimensions of the picture are shown below.



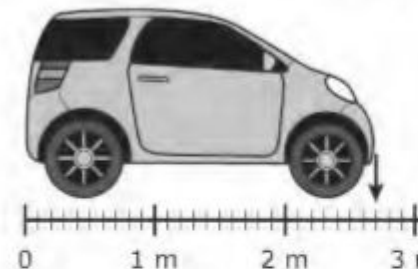
Does Adam have enough ribbon to make a border around this picture?

- F No, because $19 + 19 + 15 + 15 = 68$, and $68 > 60$
- G Yes, because $19 + 15 = 34$, and $60 > 34$
- H No, because $19 + 19 + 19 + 19 = 76$, and $76 > 60$
- J Yes, because $15 + 15 + 15 + 15 = 60$, and $60 = 60$

2014 – Q30

Which object has a

The model below represents the length



2014 – Q32

The actual size of Sam's name tag is shown below.



Use the ruler provided to measure the length and width of this name tag to the nearest centimeter. What is the difference between the length and the width of Sam's name tag in centimeters?

- F 5 cm
- G 14 cm
- H 9 cm
- J 4 cm

between the len



2014 – Q32

The actual size of Sam's name tag is shown below.

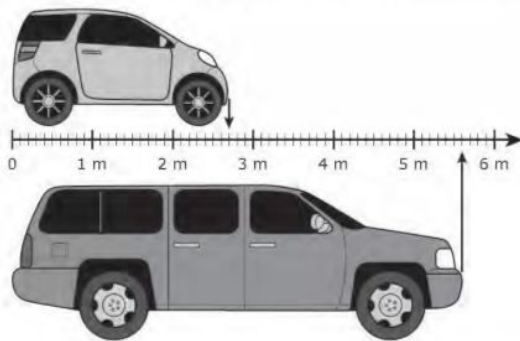


Use the ruler provided to measure the length and width of this name tag to the nearest centimeter. What is the difference between the length and the width of Sam's name tag in centimeters?

- F 5 cm
- G 14 cm
- H 9 cm
- J 4 cm

2014 – Q30

The model below represents the lengths of two automobiles in meters.



What is the difference between the lengths of these automobiles in meters?

- F 8.3 m
- G 3.9 m
- H 3.1 m
- J 2.9 m

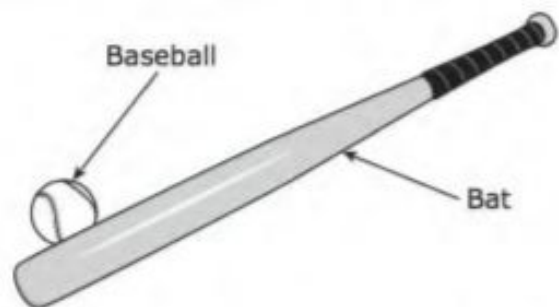
Which object has a capacity closest to 30 cups?



3

2016 – Q35

35 Garrett has a baseball and a bat like the ones shown in the picture.



Which measurement best describes the length of the bat?

- A** 35 in.
- B** 35 m
- C** 35 ft
- D** 35 mm

2014 – Q41

Which of these is closest to the width of a student's chair?

- A** 15 feet
- B** 15 yards
- C** 15 miles
- D** 15 inches



2016 – Q26

26 The distance between Henry's house and his school is 648 feet. How many yards are equivalent to 648 feet?

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



2016 – Q19

19 A geyser is an underground hot spring that shoots water and steam into the air. At Yellowstone National Park there is a geyser that erupts once every 44 to 125 minutes. If the geyser erupted one day at 1:04 P.M., at which time could the geyser erupt next?

- A 1:44 P.M.
- B 3:29 P.M.
- C 3:05 P.M.
- D 1:25 P.M.

2014 – Q5

The watch below shows the time Edward finished a hike on Saturday afternoon.



Edward began the hike at 10:00 A.M.

- A 5 hours 20 minutes
- B 6 hours 20 minutes
- C 5 hours 40 minutes
- D 7 hours 40 minutes

2013 – Q43

The clock below shows the time Vicente's football practice began.



Football practice lasted 1 hour 15 minutes. Which digital clock shows the time football practice ended?

- | | |
|---|---|
| A | C |
| B | D |

2013 – Q32

32 At 7:26 A.M., Dante started delivering packages.

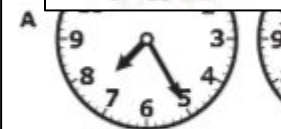
- At 10:34 A.M., he delivered the last package.
- He delivered a total of 18 packages.
- He spent about the same amount of time delivering each package.

Which of the following is the best estimate of the number of minutes Dante spent delivering each package?

- F 10 min
- G 180 min
- H 60 min
- J 20 min

20

Ar
th



2013 – Q39

39 The sign below shows the starting time of a music concert.



Evander plans to leave his house 1 hour 40 minutes before the concert starts. At what time should Evander leave his house?

- A 5:45 P.M.
- B 6:45 P.M.
- C 5:35 P.M.
- D 9:05 P.M.



2013 – Q32

- 32** At 7:26 A.M., Dante started delivering packages.
- At 10:34 A.M., he delivered the last package.
 - He delivered a total of 18 packages.
 - He spent about the same amount of time delivering each package.

Which of the following is the best estimate of the number of minutes Dante spent delivering each package?

- F** 10 min
- G** 180 min
- H** 60 min
- J** 20 min

2013 – Q39

39 The sign below shows the starting time of a music concert.



Evander plans to leave his house 1 hour 40 minutes before the concert starts. At what time should Evander leave his house?

- A** 5:45 P.M.
- B** 6:45 P.M.
- C** 5:35 P.M.
- D** 9:05 P.M.

2013 – Q8

8 Stephanie and Tamara both started running a race at 8:15 A.M. Stephanie finished the race in 4 hours 30 minutes. Tamara finished the race in 1 hour 15 minutes after Stephanie did. At what time did Tamara finish the race?

- F** 2:00 P.M.
- G** 12:45 P.M.
- H** 1:00 P.M.
- J** Not here

2014 – Q29

An airplane flight lasted 5 hours 22 minutes. Which pair of clocks could show the time the flight started and the time it finished?

	Started	Finished		Started	Finished
A			C		
B			D		



2015 – Sample Q11

11 Kareem will use beads to make bracelets. He has 475 beads and needs to use 9 beads for each bracelet. What is the greatest number of bracelets Kareem can make with 475 beads?

- A 52
- B 49
- C 45
- D 53

2013 – Q41

Oscar used a total of 315 blocks to make 5 towers. He used an equal number of blocks to make each tower. How many blocks did Oscar use to make each tower?

- A 65
- B 63
- C 61
- D 79

2016 – Q2

2 Eric has 158 action figures to put in display cases. Each display case can hold 8 action figures. How many cases does Eric need to hold all his action figures?

- F 18
- G 20
- H 19
- J 21

2013 – Q24

There are four times as many cows as horses on a farm. There are twice as many horses as pigs on the farm. Which list shows the number of each type of animal on this farm?

- F 9 cows, 36 horses, and 18 pigs
- G 48 cows, 12 horses, and 24 pigs
- H 32 cows, 16 horses, and 8 pigs
- J 72 cows, 18 horses, and 9 pigs

2014 – Q37

Each of 16 students in a class made a poetry book. Each book contained 24 poems. How many poems are in 16 books?

- A 484
- B 364
- C 384
- D 168

2016 – Q28

28 Diane worked 18 hours each week during the summer. She worked a total of 8 weeks and earned \$9 an hour. How much money did Diane earn during the summer?

- F \$306
- G \$1,296
- H \$156
- J \$1,386

2014 – Q40

Isabel has 745 strawberries. She separated the strawberries into 5 equal groups. How many strawberries are in 2 of the groups?

- F 202, because $745 \div 5 = 101$ and $101 \times 2 = 202$
- G 282, because $745 \div 5 = 141$ and $141 \times 2 = 282$
- H 298, because $745 \div 5 = 149$ and $149 \times 2 = 298$
- J 290, because $745 \div 5 = 145$ and $145 \times 2 = 290$

2

2016 – Q33

33 A rug shaped like a rectangle has a width of 3 m. The length of the rug is 2 m greater than its width. What is the perimeter of the rug in meters?

- A 10 m
- B 16 m
- C 8 m
- D 15 m

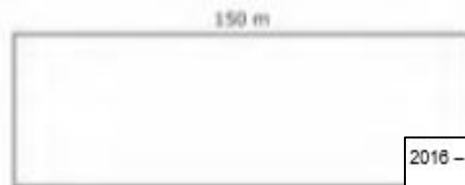
2016 – Q17

17 Sebastian had a rectangular piece of paper that was 90 mm long and 50 mm wide. He cut the paper in half. What is the area of each half of the paper in square millimeters?

- A 4,500 square millimeters
- B 9,000 square millimeters
- C 2,250 square millimeters
- D 1,125 square millimeters

2015 – Sample Q14

14 The model shows a rectangular field with a length of 150 m. The perimeter of the field is 400 m.



What is the width of the field in meters?

- A 250 m
- B 100 m
- C 125 m
- D 50 m

2016 – Q8

8 Use the ruler provided to measure the length and width of each rectangle to the nearest centimeter.



What is the difference between the perimeters of these rectangles in centimeters?

- F 3 cm, because $6 - 3 = 3$
- G 2 cm, because $6 - 6 = 2$
- H 4 cm, because $16 - 12 = 4$
- J 1 cm, because $9 - 8 = 1$