

Which comparison is true?

- A** $68 > 649$
- B** $571 > 582$
- C** $730 < 806$
- D** $709 < 692$

A student measured the lengths of two worms.

- Worm S was $\frac{1}{2}$ foot long.
- Worm T was $\frac{2}{2}$ foot long.

Which statement is true?

- A** The length of Worm S is greater than the length of Worm T.
- B** The length of Worm T is greater than the length of Worm S.
- C** The length of Worm S is equal to the length of Worm T.
- D** There is not enough information to compare the lengths of the worms.

Haruko did 9 sit-ups in P.E. class. The number of sit-ups Tom did can be represented by this expression.

$$2 \times 9$$

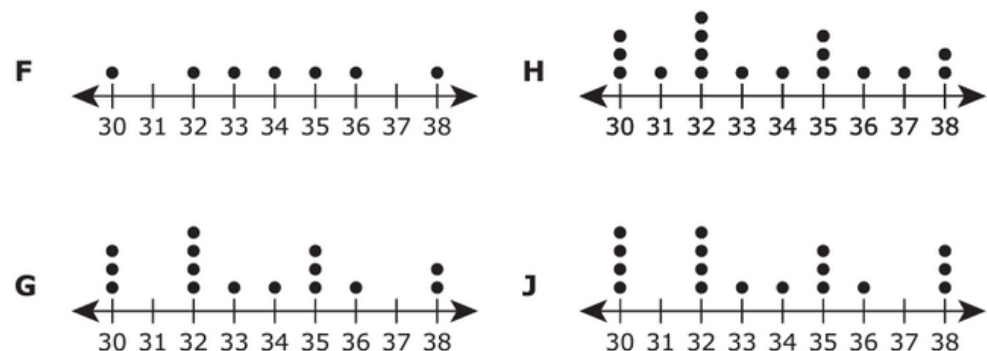
Which statement is true?

- A** Tom did 2 times as many sit-ups as Haruko.
- B** Haruko did 2 times as many sit-ups as Tom.
- C** Tom did 2 more sit-ups than Haruko.
- D** Haruko did 2 more sit-ups than Tom.

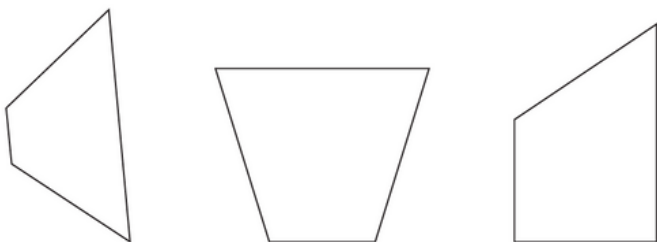
The numbers listed show the speed in miles per hour Henry pitched a baseball.

30, 32, 38, 30, 33, 34, 32, 35, 38, 36, 35, 32, 30, 32, 35

Which dot plot represents the speed of Henry's pitches?



A group of figures is shown.



Which word best describes all the figures in the group?

- A** Rectangle
- B** Rhombus
- C** Trapezoid
- D** Parallelogram

The picture shows 8 seats in a movie theater.
Children are sitting in a fraction of the seats.



Which expression is equivalent to the fraction of the seats that have children sitting in them?

- F** $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
- G** $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$
- H** $\frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8}$
- J** $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

Which number sentence can be used to find the number that goes in the box?

$$12 \div 2 = \square$$

- A** $2 + 12 = 14$
- B** $6 \times 2 = 12$
- C** $12 \times 2 = 24$
- D** $2 + 10 = 12$

Carter and Dane shared a package of 8 baseballs equally.

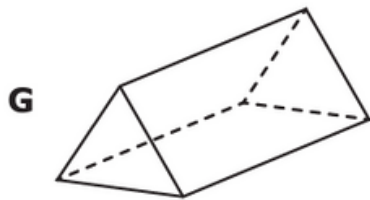
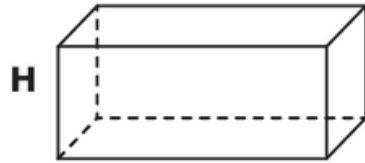
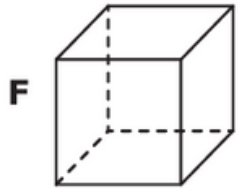


What fraction of the package of baseballs did each person get?

- A** $\frac{2}{8}$ **C** $\frac{4}{1}$
- B** $\frac{4}{4}$ **D** $\frac{4}{8}$

Chris built a fort using prisms.

Which figure is **NOT** one Chris could have used to build his fort?



What number goes in the \square to make the equation true?

$$\square \times 7 = 98$$

A 14

B 91

C 105

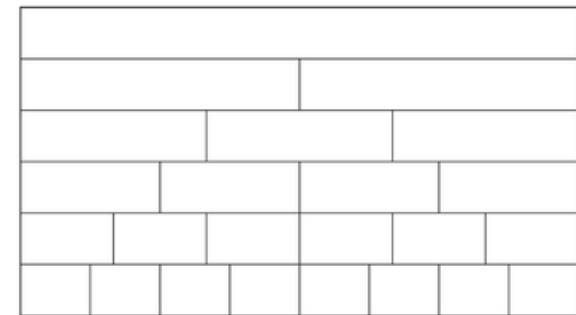
D 13

An expression is shown.

$$5 + 700 + 40$$

What number is equivalent to this expression?

The fraction strips shown can be used to find equivalent fractions.



Which fraction is equivalent to $\frac{2}{4}$?

F $\frac{1}{2}$

H $\frac{3}{4}$

G $\frac{2}{6}$

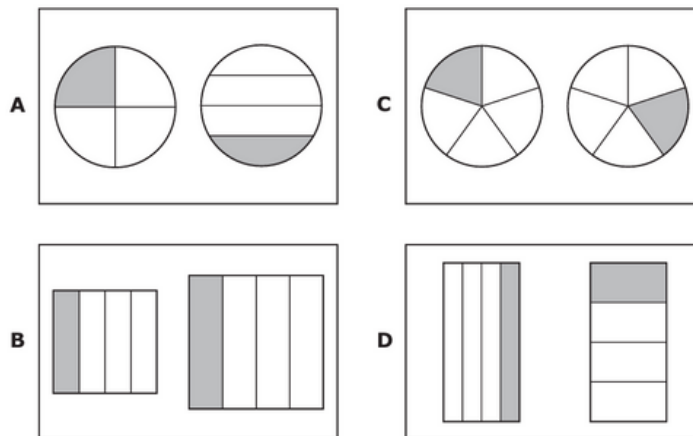
J $\frac{1}{3}$

Which statement about the number 27 is true?

- A** It is even because the digit in the tens place is even.
- B** It is odd because the digit in the ones place is odd.
- C** It is even because it can be divided by 9 evenly.
- D** It is odd because it can be divided by 2 evenly.

Derrick drew two congruent figures and then shaded $\frac{1}{4}$ of each figure.

Which figures could be the ones Derrick drew and shaded?



Three friends divided three pizzas into pieces. The shaded parts of the models represent the pieces that the friends ate.



Which statement describes the fraction of a pizza that one of the friends ate?

- F** Diego ate $\frac{1}{2}$ of a pizza, because he ate the largest piece of his 2 pieces.
- G** Victoria ate $\frac{1}{3}$ of a pizza, because she ate 1 piece and had 3 equal-size pieces left over.
- H** Wesley ate $\frac{1}{2}$ of a pizza, because he ate 1 piece of his 2 equal-size pieces.
- J** Victoria ate $\frac{3}{1}$ of a pizza, because she ate 1 piece and had 3 pieces left over.

Owen received the coins and bills shown when he sold lemonade.



What is the value of the coins and bills Owen received?

- A** \$8.85
- B** \$9.00
- C** \$9.10
- D** \$8.90

An expression is shown.

$$70 + 2 + 900$$

What number is equivalent to this expression?

After a soccer game Isaac drank a bottle of water. Which unit of measurement can be used to measure the volume of the water in the bottle?

- A** Fluid ounces
- B** Grams
- C** Inches
- D** Square centimeters

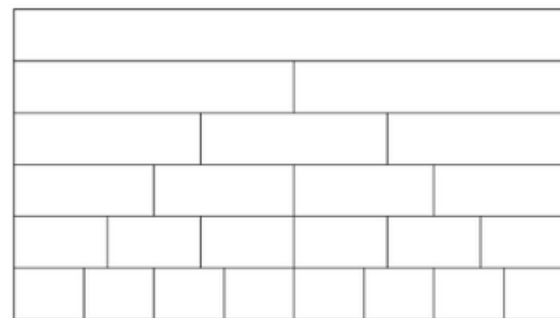
Each strip of the diagram is shaded to represent a fraction of 1 whole.



The fractions represented are —

- F** equivalent, because the shaded area of Strip B is greater than the shaded area of Strip A
- G** not equivalent, because Strip A has 4 parts in all and Strip B has 8 parts in all
- H** equivalent, because the shaded area of Strip A is the same as the shaded area of Strip B
- J** not equivalent, because Strip A has 3 shaded parts and Strip B has 6 shaded parts

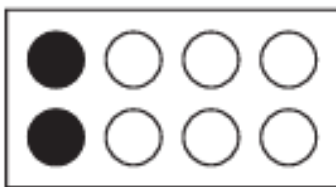
Fraction strips are shown.



Which comparison is true?

- A** $\frac{1}{6} < \frac{1}{4}$
- B** $\frac{1}{3} < \frac{1}{8}$
- C** $\frac{1}{4} > \frac{1}{2}$
- D** $\frac{1}{8} = \frac{2}{8}$

Irene has a group of counters, as shown.



Which two fractions can represent the black counters in the group?

- A** $\frac{2}{6}$ and $\frac{2}{8}$ **C** $\frac{1}{4}$ and $\frac{2}{8}$
B $\frac{1}{3}$ and $\frac{2}{6}$ **D** $\frac{1}{4}$ and $\frac{2}{4}$

On Saturday afternoon Marcus went to a swimming pool. The clock shows the time he arrived at the pool.



He left the pool 45 minutes later. At what time did Marcus leave the pool?

- A** 2:20 PM
B 7:55 PM
C 2:15 PM
D 3:20 PM

The models shown are the same size. Each model is divided into equal-size parts and is shaded to represent a fraction.



Which statement is true?

- F** $\frac{6}{8} < \frac{8}{8}$, because sixths are smaller parts than eighths
G $\frac{6}{8} < \frac{8}{8}$, because 6 out of 8 parts is less than 8 out of 8 parts
H $\frac{6}{8} > \frac{8}{8}$, because sixths are larger parts than eighths
J $\frac{6}{8} > \frac{8}{8}$, because 6 out of 8 parts is greater than 8 out of 8 parts

Which comparison is NOT true?

- F** $17,090 > 2,984$
G $34,162 < 3,986$
H $16,538 > 15,981$
J $2,438 < 3,438$

Which list shows the numbers in order from greatest to least value?

- A** 38,945 9,052 9,181
- B** 6,912 29,013 34,987
- C** 58,702 50,716 581
- D** 6,092 60,019 5,005

Which number is odd?

- A** 205
- B** 350
- C** 168
- D** 514

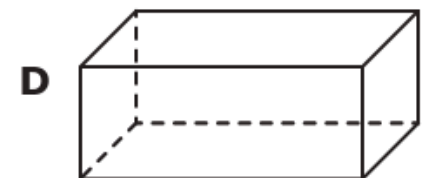
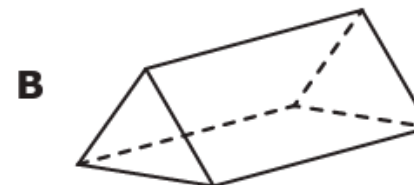
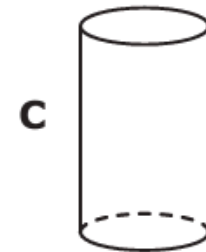
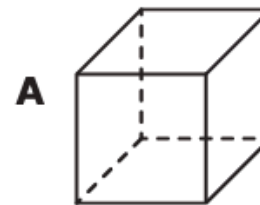
The expanded form of a number is shown.

$$90,000 + 200 + 40 + 1$$

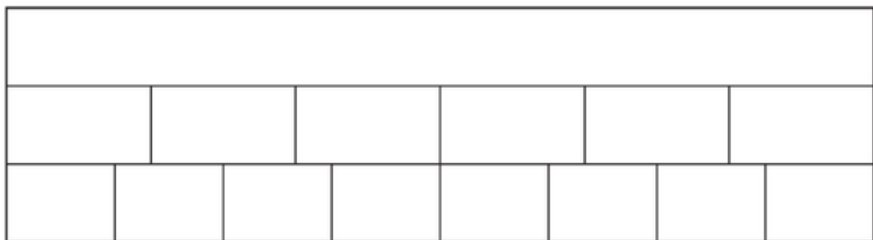
What is the standard form of this number?

- A** 9,241
- B** 92,041
- C** 90,241
- D** 90,421

Which figure CANNOT be classified as a prism?



Fraction strips are shown.



Which comparison and explanation are true?

- A $\frac{5}{6} < \frac{5}{8}$, because eighths are larger than sixths
- B $\frac{5}{6} < \frac{5}{8}$, because sixths are larger than eighths
- C $\frac{5}{6} > \frac{5}{8}$, because eighths are larger than sixths
- D $\frac{5}{6} > \frac{5}{8}$, because sixths are larger than eighths

Which answer choice does NOT describe the number 7,140?

- A The sum of seven thousands and fourteen tens
- B The sum of seven thousands, one hundred, and forty tens
- C The sum of seven thousands, one hundred, and four tens
- D The sum of seven thousands, one hundred, and forty ones

Point P on the number line represents two equivalent fractions.



Which two equivalent fractions can point P represent?

- A $\frac{1}{4}$ and $\frac{1}{8}$
- B $\frac{1}{3}$ and $\frac{2}{6}$
- C $\frac{1}{4}$ and $\frac{2}{8}$
- D $\frac{1}{4}$ and $\frac{3}{4}$

There are 18 spoons in a drawer.

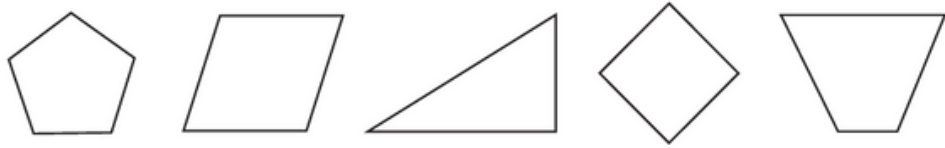
This expression represents the number of forks in the same drawer.

$$2 \times 18$$

Which statement is true?

- A There are 2 more spoons than forks in the drawer.
- B There are 2 more forks than spoons in the drawer.
- C There are 2 times as many forks as spoons in the drawer.
- D There are 2 times as many spoons as forks in the drawer.

The figures shown can be sorted into groups.



Which list shows a correct way to group these figures?

- A** 1 triangle, 3 quadrilaterals, and 1 pentagon
- B** 1 triangle and 4 quadrilaterals
- C** 1 triangle, 3 quadrilaterals, and 1 hexagon
- D** 1 triangle, 2 quadrilaterals, and 2 pentagons

Dana used the money shown to buy a snack.

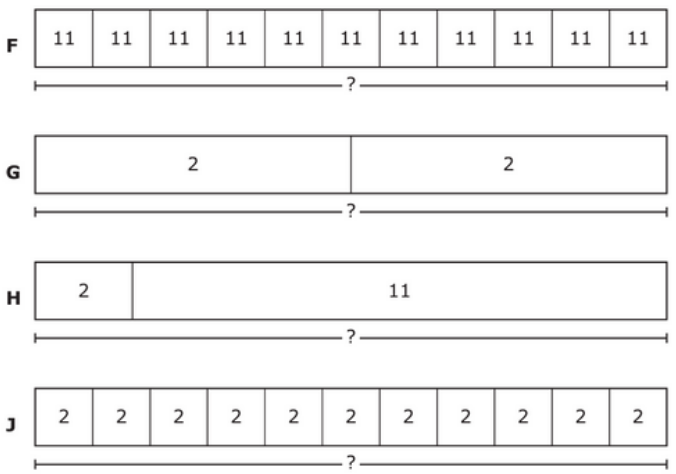


What amount of money did Dana use to buy the snack?

- A** \$1.37
- B** \$1.32
- C** \$1.40
- D** \$1.27

Yolanda made 11 sandwiches for a picnic. She used 2 pieces of bread for each sandwich.

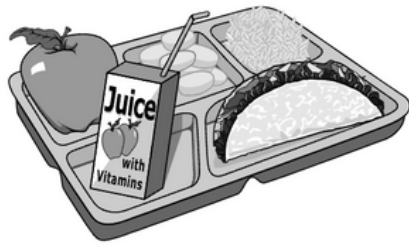
Which strip diagram can be used to find the number of pieces of bread Yolanda used?



Which comparison is true?

- A** $2/4 > 2/6$
- B** $2/3 = 2/4$
- C** $2/6 > 2/4$
- D** $2/3 < 2/8$

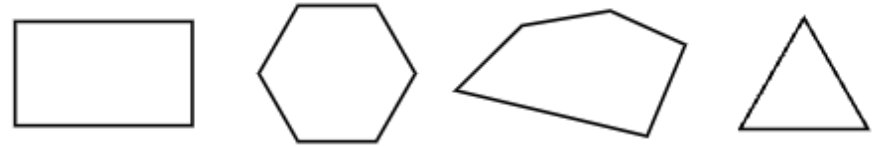
Hannah gets a juice box like the one shown when she buys a lunch.



Which measurement is closest to the amount of juice in a full juice box?

- A 2 milliliters
- B 200 milliliters
- C 2 liters
- D 200 liters

A group of figures is shown.



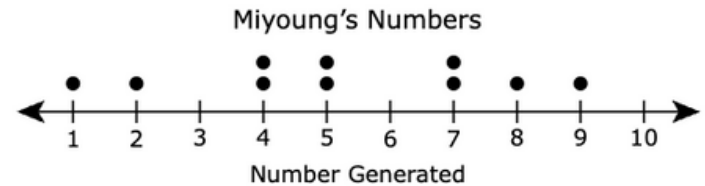
Which statement appears to be true about all the figures in the group?

- A All the figures are parallelograms.
- B All the figures are polygons.
- C All the figures have equal side lengths.
- D All the figures are prisms.

Which statement about the number 510 is true?

- A It is odd, because it can be divided by 3 evenly.
- B It is odd, because the digit in the hundreds place is odd.
- C It is even, because it can be divided by 2 evenly.
- D It is even, because the digit in the tens place is even.

Miyoung uses a computer to randomly generate numbers between 1 and 10. The results are shown in the dot plot.



Each ● means 1 number.

Which list of numbers represents Miyoung's results?

- A 1 2 4 5 7 8 9
- B 1 2 3 4 5 6 7 8 9 10
- C 1 2 4 5 7 8 9 10
- D 1 2 4 4 5 5 7 7 8 9

Which list contains only numbers that belong between 5,090 and 6,300 on a number line?

A

53,450
54,258
61,988

C

5,450
6,215
6,381

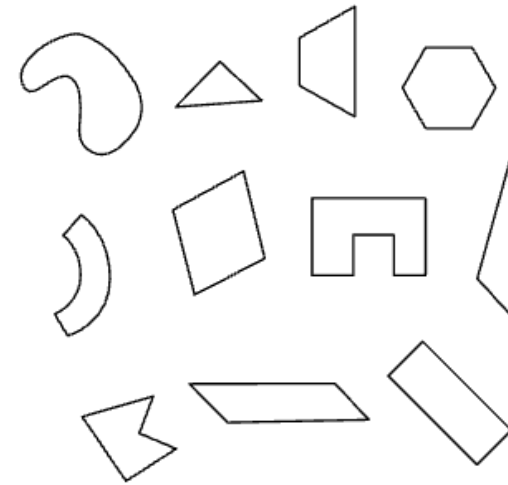
B

5,009
5,894
6,132

D

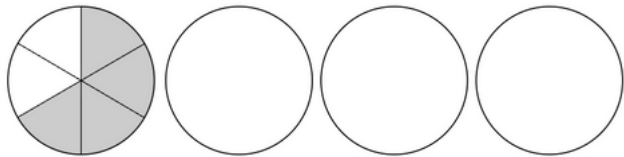
5,746
6,099
6,211

Jesse draws 11 shapes, as shown.



How many of the shapes are polygons with more than three sides?

Hector has four circles that are the same size. He divided and shaded the first circle to represent the fraction $\frac{4}{6}$.



Hector will correctly divide and shade the other circles to represent less than $\frac{4}{6}$.

Which answer choice is NOT a way Hector could divide and shade a circle to represent a fraction less than $\frac{4}{6}$?

- A** He could divide a circle into 6 equal parts and shade 1 of the parts.
- B** He could divide a circle into 8 equal parts and shade 4 of the parts.
- C** He could divide a circle into 4 equal parts and shade 4 of the parts.
- D** He could divide a circle into 6 equal parts and shade 3 of the parts.

A table with the areas of four states is shown.

State Areas	
State	Area (square miles)
Connecticut	4,845
Vermont	9,624
Hawaii	6,423
New Hampshire	9,350

Which list represents the areas of the states ordered from least to greatest?

- A** Vermont, New Hampshire, Hawaii, Connecticut
- B** Connecticut, Hawaii, New Hampshire, Vermont
- C** Connecticut, Hawaii, Vermont, New Hampshire
- D** New Hampshire, Hawaii, Vermont, Connecticut

Which answer choice describes the number 9,140?

- A The sum of nine thousands and fourteen ones
- B The sum of nine thousands, one hundred, and forty tens
- C The sum of nine thousands, one hundred, and four tens
- D The sum of nine thousands, one hundred, and four ones

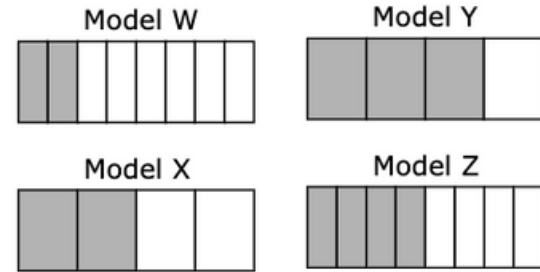
The clock shows the time a movie started.



The movie lasted 1 hour 15 minutes. Which time is closest to the time the movie ended?

- A 8:00
- B 10:45
- C 5:30
- D 7:24

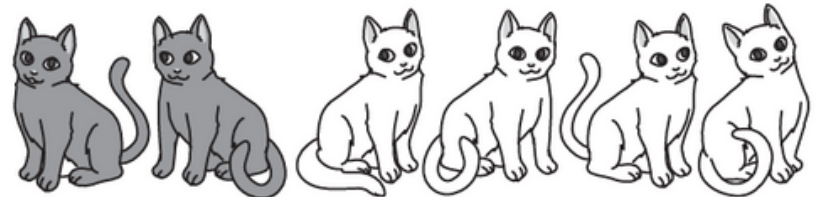
Four fraction models are shown.



Which two models are shaded to show equivalent fractions?

- A Models W and X
- B Models X and Z
- C Models W and Z
- D Models X and Y

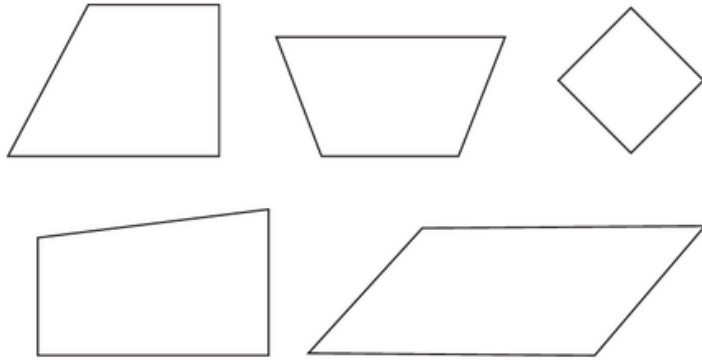
A group of 6 kittens is shown. Some kittens are gray, and some kittens are white.



Which expression represents the fraction of the group of kittens that are white?

- A $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$
- B $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
- C $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$
- D $\frac{1}{4} + \frac{1}{4}$

Which TWO figures appear to be parallelograms?



The point on the number line represents the number of people at a parade.



Which statement best describes the number of people at the parade?

- A** The number of people at the parade was less than 8,000.
- B** The number of people at the parade was greater than 10,000.
- C** The number of people at the parade was about 10,000 because the point is closer to 10,000.
- D** The number of people at the parade was about 8,000 because the point is closer to 8,000.