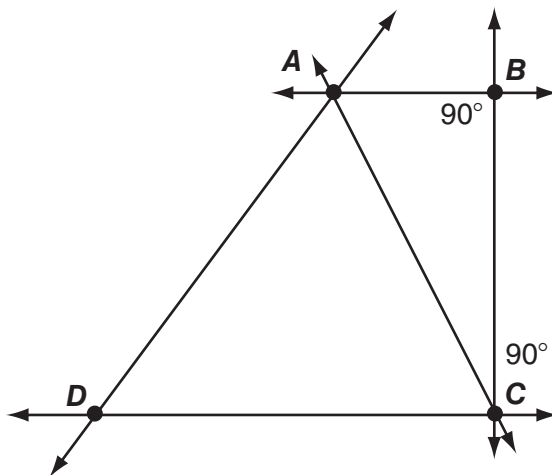


- 1 What does  $28 = 7 \times 4$  represent?
- (A) 28 times 7 equals 28 times 4.
- (B) 28 divided by 7 is 4.
- (C) 28 divided by 4 is 7.
- (D) 28 is 4 times as many as 7.

- 2 Which line is parallel to  $\overleftrightarrow{AB}$  in this figure?



- (A)  $\overleftrightarrow{BC}$                       (C)  $\overleftrightarrow{AD}$
- (B)  $\overleftrightarrow{CD}$                       (D)  $\overleftrightarrow{AC}$

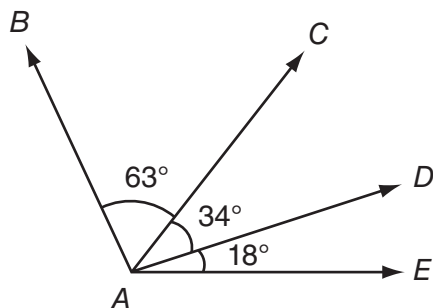
- 3 One way to show  $\frac{5}{6}$  as a sum of fractions is  $\frac{3}{6} + \frac{2}{6}$ . Which shows another way?

- (A)  $\frac{1}{6} + \frac{4}{6}$
- (B)  $\frac{1}{3} + \frac{4}{3}$
- (C)  $\frac{5}{6} + \frac{3}{6} + \frac{2}{6}$
- (D)  $\frac{1}{3} + \frac{1}{3} + \frac{3}{3}$

- 4 Sam's uncle drove 1,149 miles one month and 1,223 miles the next month. How many miles did Sam's uncle drive in the two months?

- (A) 2,362 miles
- (B) 2,372 miles
- (C) 2,462 miles
- (D) 2,472 miles

- 5 What is the measure of  $\angle BAE$ ?



- 6 Which decimal is equal to  $\frac{1}{10}$ ?

(A) 0.01                      (C) 1.1  
(B) 0.1                        (D) 10.1

- 7 Jamal's class collects 37 board games. Chen's class collects 3 times as many as Jamal's class. The classes donate all the games to 9 local groups. Each group receives about the same number of games. Which is the BEST estimate of how many games each group receives?

(A) 4                              (C) 28  
(B) 16                            (D) 32

- 8 What is 2,548 rounded to the nearest thousand?

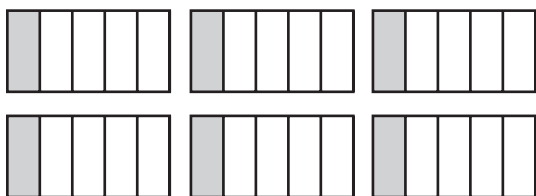
(A) 2,000                      (C) 3,000  
(B) 2,500                      (D) 3,500

- 9** These two visual models show the same product.

$$3 \times \frac{2}{5} =$$



$$6 \times \frac{1}{5} =$$



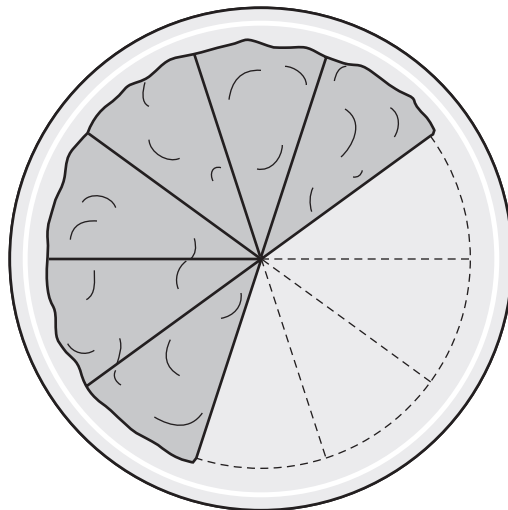
Which of these is the product?

- (A)  $1\frac{1}{5}$                       (C)  $3\frac{2}{5}$   
(B)  $2\frac{2}{5}$                       (D)  $6\frac{1}{5}$

- 10** Which shows the expanded form of 32,009?

- (A)  $3 \times 100,000 + 2 \times 10 + 9 \times 1$   
(B)  $3 \times 10,000 + 2 \times 100 + 9 \times 10$   
(C)  $3 \times 10,000 + 2 \times 1,000 + 9 \times 1$   
(D)  $3 \times 100,000 + 2 \times 100 + 9 \times 10$

- 11** Shawn cuts the cornbread into 10 equal pieces. His family eats 4 pieces.



Which decimal equals the amount of cornbread that is left?

- (A) 0.04                      (C) 0.06  
(B) 0.40                      (D) 0.60

- 12** Which is true about a rectangle and a parallelogram?

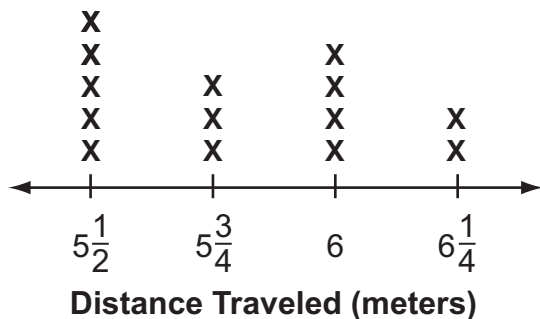
- (A) Both have no right angles.  
(B) Both have no sides of equal length.  
(C) Both have 2 pairs of parallel sides.  
(D) Both have 2 pairs of acute angles.

**13** Which list contains only composite numbers?

- Ⓐ 1, 2, 3, 5, 11, 12, 13
- Ⓑ 0, 3, 5, 7, 9, 11, 13
- Ⓒ 2, 4, 6, 8, 10, 12, 14
- Ⓓ 4, 6, 8, 9, 10, 12, 14

**14** Students in Mr. Hernandez's class roll hula hoops during a contest. Mr. Hernandez makes a line plot to show the distance traveled by each hula hoop.

**Distance Traveled by Hula Hoops**



What is the distance traveled by all the hula hoops?

- Ⓐ  $27\frac{1}{2}$  meters    Ⓒ  $63\frac{1}{2}$  meters
- Ⓑ  $44\frac{3}{4}$  meters    Ⓓ  $81\frac{1}{4}$  meters

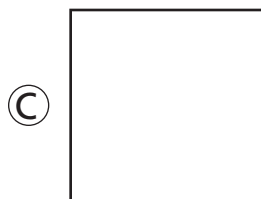
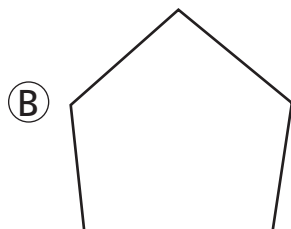
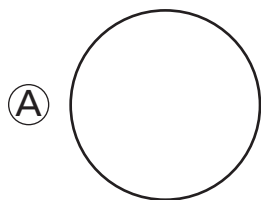
**15** Regina has 9 bracelets. Joel has 3 times as many bracelets as Regina. Which equation can be used to find the number of bracelets,  $n$ , that Joel has?

- Ⓐ  $9 + 3 = n$
- Ⓑ  $9 - 3 = n$
- Ⓒ  $9 \times 3 = n$
- Ⓓ  $9 \div 3 = n$

**16** Gabriella plays video games from 2:49 p.m. to 3:32 p.m. Mason plays video games for 35 minutes. How many minutes longer does Gabriella play video games than Mason?

- Ⓐ 3
- Ⓑ 8
- Ⓒ 14
- Ⓓ 17

- 17** Which figure has exactly two lines of symmetry?



- 18** Shakara bought  $4\frac{5}{12}$  yards of ribbon to make a bow. After making the bow, she had  $1\frac{3}{12}$  yards left. How much ribbon did Shakara use to make her bow?

- (A)  $5\frac{8}{12}$  yards      (C)  $2\frac{2}{12}$  yards  
(B)  $3\frac{2}{12}$  yards      (D)  $1\frac{8}{12}$  yards

- 19** In which group of numbers is each number a multiple of 4?

- (A) 12, 24, 48, 96  
(B) 12, 33, 66, 99  
(C) 21, 28, 49, 70  
(D) 25, 40, 75, 95

- 20** Kyle uses partial products to multiply a two-digit number by a two-digit number.

$$\begin{array}{r} 52 \\ \times 1\boxed{\phantom{0}} \\ \hline 12 \\ 300 \\ 20 \\ + 500 \\ \hline 832 \end{array}$$

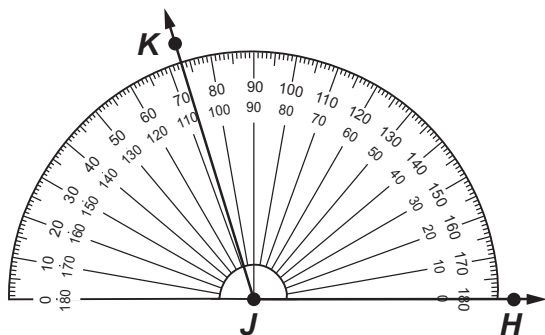
Which is the unknown digit?

- (A) 5                      (C) 7  
(B) 6                      (D) 8

- 21** Lee ate  $\frac{3}{8}$  of the pizza. Margie ate  $\frac{1}{8}$  of the pizza. How much more of the pizza did Lee eat?

(A)  $\frac{2}{8}$  (C)  $\frac{8}{2}$   
(B)  $\frac{3}{8}$  (D)  $\frac{8}{3}$

- 22** What is the measure of  $\angle HJK$ ?

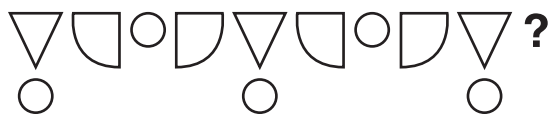


(A)  $70^\circ$  (C)  $107^\circ$   
(B)  $73^\circ$  (D)  $180^\circ$

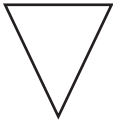
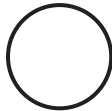
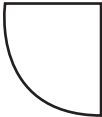
- 23** In September, 2,209 people visited the museum. In June, the number of visitors to the museum grew to 3,897. Which of the following uses rounding to the nearest hundred to estimate the change in the number of visitors?

(A)  $4,000 - 2,000$   
(B)  $4,000 - 2,200$   
(C)  $3,900 - 2,200$   
(D)  $3,800 - 2,300$

- 24** Veronica made this pattern along the top of a poster.



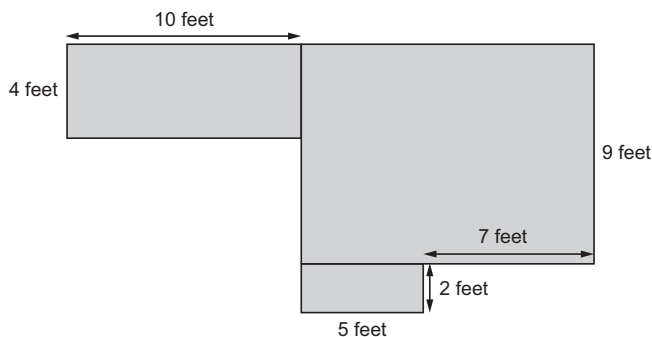
Which shape should she draw next to continue the pattern?

(A)  (C)   
(B)  (D) 

- 25** Lucy needs  $\frac{3}{4}$  cup of flour for a recipe. How many times should she fill her  $\frac{1}{4}$ -measuring cup to make  $\frac{3}{4}$  cup of flour?

(A) 1                      (C) 3  
(B) 2                      (D) 6

- 26** Oliver measures a floor and creates this diagram.



Which is the area of the floor Oliver measures?

(A) 37 square feet  
(B) 66 square feet  
(C) 113 square feet  
(D) 158 square feet

- 27** In which number does the 5 have 10 times the value it has in the number 954?

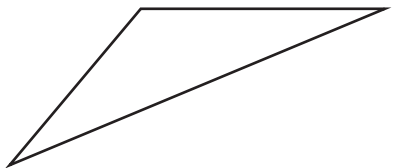
(A) 459  
(B) 495  
(C) 594  
(D) 945

- 28** Zara needs to make 10 paper rose decorations. Each rose requires  $\frac{2}{3}$  of a sheet of paper. How many sheets of paper does Zara need?

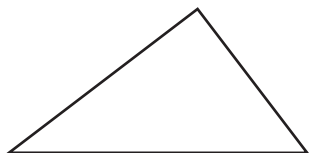
(A) 6  
(B) 7  
(C) 20  
(D) 30

- 29** Which triangle has an obtuse angle?

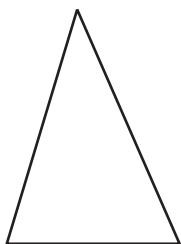
Ⓐ



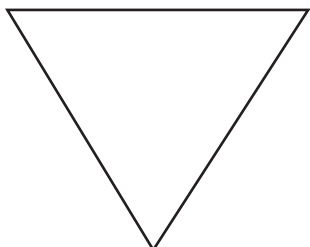
Ⓑ



Ⓒ



Ⓓ



- 30** Mr. Kim plants trees in a row that is 9 yards long. How many feet long is the row?

Ⓐ 12

Ⓒ 24

Ⓑ 18

Ⓓ 27