

- 1 Jean threw a softball a distance of 9 feet. Lee threw a softball 3 times as far as Jean. Which equation can be used to determine the distance, d , that Lee threw the ball?

A $d \times 3 = 9$

B $d + 3 = 9$

C $3 + 9 = d$

D $3 \times 9 = d$

- 2 Natasha and Evan are each writing a 5-page essay. Natasha completed $\frac{3}{5}$ of her essay in the morning and $\frac{2}{5}$ of her essay in the afternoon. Evan completed $\frac{4}{5}$ of his essay after school. How much more of the total essay did Natasha complete than Evan?

A $\frac{1}{5}$

B $\frac{2}{5}$

C $\frac{4}{5}$

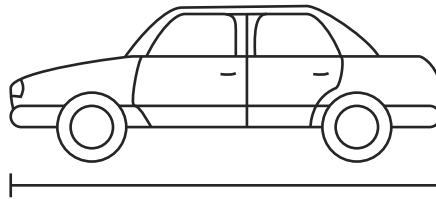
D $\frac{9}{5}$

GO ON

3 A number, rounded to the nearest thousand, is 47,000. Which number could be the number that was rounded?

- A 46,295
- B 46,504
- C 47,520
- D 47,924

4 What is the length, in inches, of the toy car shown below?



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

12 What is the measure, in degrees, of an angle that represents $\frac{50}{360}$ of a circle?

- A 50°
- B 90°
- C 310°
- D 360°

13 Ms. Larsen is buying 2 delivery vans for her business. The price of the first van is shown below.

\$16,257

The digit 2 in the price of the second van is 10 times the value of the digit 2 in the price of the first van. Which amount could be the price of the second van?

- A \$12,987
- B \$15,927
- C \$17,257
- D \$21,579

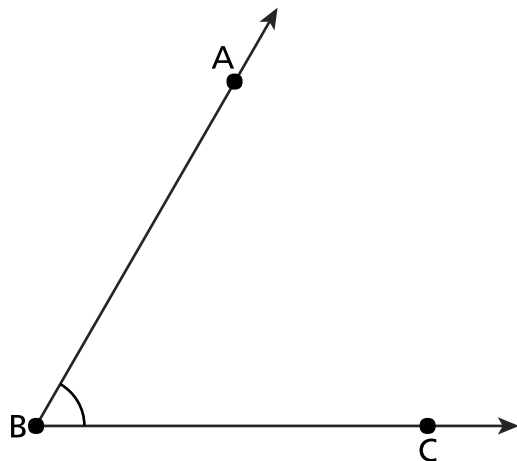
14 What is the rule for the pattern shown below?

41, 38, 35, 32, 29, . . .

- A divide by 3
- B divide by 4
- C subtract 3
- D subtract 4

GO ON

- 17 What is the measure of angle ABC?



- A 60°
B 70°
C 110°
D 120°
- 18 Which expression has the same value as $\frac{7}{12}$?

- A $\frac{2}{12} + \frac{3}{12} + \frac{3}{12}$
B $\frac{7}{12} + \frac{7}{12} + \frac{7}{12}$
C $\frac{2}{12} + \frac{1}{12} + \frac{2}{12} + \frac{1}{12}$
D $\frac{2}{12} + \frac{1}{12} + \frac{2}{12} + \frac{2}{12}$

23 What is the quotient of $1,248 \div 7$?

- A 177 remainder 9
- B 168 remainder 2
- C 178 remainder 2
- D 178 remainder 3

24 Which number sentence correctly compares two numbers?

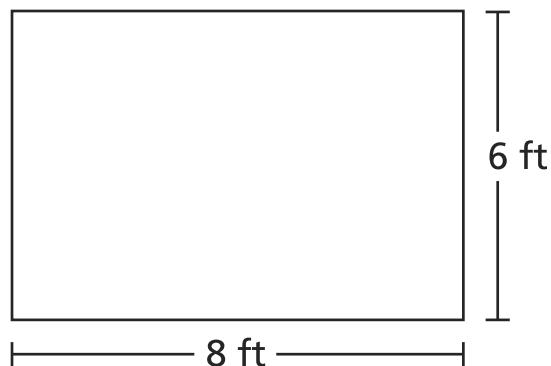
- A forty-six thousand three hundred fifteen $< 46,350$
- B $29,073 = 20,000 + 9,000 + 700 + 3$
- C $10,000 + 6,000 + 400 >$ sixteen thousand four hundred ten
- D $86,502 = 80,000 + 6,000 + 500 + 20$

25 Which expression has the same value as $7 \times \frac{3}{4}$?

- A $21 \times \frac{3}{4}$
- B $21 \times \frac{3}{28}$
- C $21 \times \frac{1}{4}$
- D $21 \times \frac{1}{28}$

GO ON

- 27 Megan's art class painted two rectangular murals. The size of the first mural is shown below.



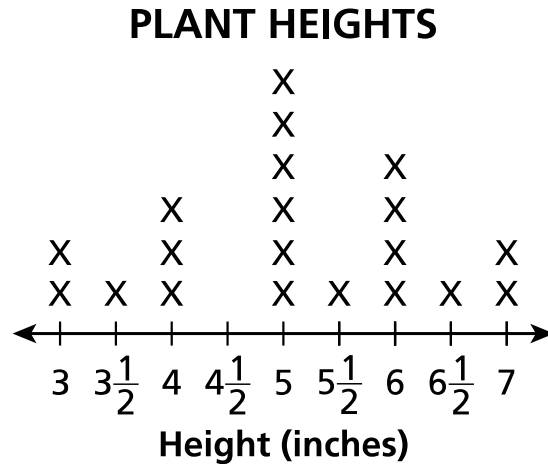
The second mural had the same area as the first mural but had a different perimeter. Which measures could be the side lengths of the second mural?

- A 8 feet and 6 feet
- B 5 feet and 9 feet
- C 4 feet and 12 feet
- D 4 feet and 10 feet
- 28 Jack picks 60 apples from an apple tree. He uses 12 of them to make applesauce. He places the remaining apples equally into 6 gift baskets. Which equation can be used to determine the number of apples, a , that Jack places into each gift basket?
- A $(60 \div 6) - 12 = a$
- B $(60 - 12) \div 6 = a$
- C $(60 - 6) - 12 = a$
- D $(60 + 12) \div 6 = a$

GO ON

29

Once a week, students in a classroom measure the heights of the tomato plants they planted in the school garden. The line plot below shows the heights of the plants at the end of the second week.



Based on the line plot, how many plants have a height greater than $4\frac{1}{2}$ inches?

- A 0
- B 6
- C 14
- D 20

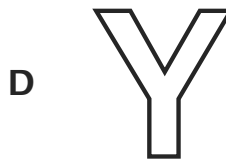
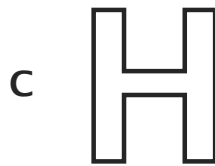
30

Which statement is true?

- A $\frac{4}{12} > \frac{5}{8}$ because $\frac{5}{8}$ is greater than $\frac{1}{2}$ and $\frac{4}{12}$ is closer to 1 than $\frac{1}{2}$.
- B $\frac{4}{12} < \frac{5}{8}$ because $\frac{4}{12}$ is less than $\frac{1}{2}$ and $\frac{5}{8}$ is greater than $\frac{1}{2}$.
- C $\frac{5}{8} > \frac{4}{12}$ because $\frac{4}{12}$ and $\frac{5}{8}$ are both closer to 1 than $\frac{1}{2}$.
- D $\frac{5}{8} < \frac{4}{12}$ because $\frac{5}{8}$ and $\frac{4}{12}$ are both less than $\frac{1}{2}$.

STOP

31 Which letter has the **greatest** number of lines of symmetry?



32 Which list shows all the factors of 36?

A 1, 2, 3, 4, 9, 12, 18, 36

B 0, 1, 2, 3, 4, 9, 12, 18, 36

C 1, 2, 3, 4, 6, 9, 12, 18, 36

D 0, 1, 2, 3, 4, 6, 9, 12, 18, 36

33 Which expression shows 125,206 written in expanded form?

A $100,000 + 2,000 + 5,000 + 200 + 6$

B $100,000 + 20,000 + 5,000 + 200 + 6$

C $100,000 + 20,000 + 50,000 + 200 + 6$

D $100,000 + 20,000 + 5,000 + 2,000 + 6$

GO ON

34

The table shows the height increases, in inches, of some girls in Gina’s class from last month to this month.

HEIGHT INCREASES IN 1 MONTH

Name	Height Increase (inches)
Gina	$\frac{3}{8}$
Maxine	$\frac{2}{3}$
Shari	$\frac{2}{4}$
Vanessa	$\frac{3}{12}$

What girl had a height increase that was greater than $\frac{1}{2}$ inch?

- A Gina
- B Maxine
- C Shari
- D Vanessa

- 35 Carl used some fabric to make a seat cover. Then he used 8 times as much fabric to make a tent. He used 24 yards of fabric to make the tent. Which equation can be used to determine the amount of fabric he used to make the seat cover?

A $24 = 8 \times \underline{\quad ? \quad}$

B $24 = 8 + \underline{\quad ? \quad}$

C $8 \times 24 = \underline{\quad ? \quad}$

D $8 + 24 = \underline{\quad ? \quad}$

- 36 Ms. Clark's class went to recess at 12:00 p.m., as shown below.



The minute hand had turned 90 degrees by the time recess ended. At what time did recess end?

- A 12:15 p.m.
B 12:30 p.m.
C 12:45 p.m.
D 1:00 p.m.

GO ON

37 Andrew wrote the number 186,425 on the board. In which number is the value of the digit 6 exactly 10 times the value of the digit 6 in the number Andrew wrote?

A 681,452

B 462,017

C 246,412

D 125,655

38 Which number could be placed in the blank to make the equation true?

$$6 \times \frac{5}{6} = \underline{\quad ? \quad} \times \frac{1}{6}$$

A 5

B 11

C 30

D 36

39

Which diagram below appears to show a pair of perpendicular lines?

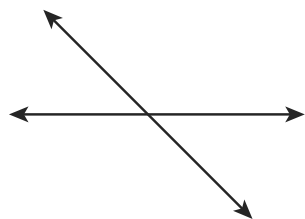


Diagram A

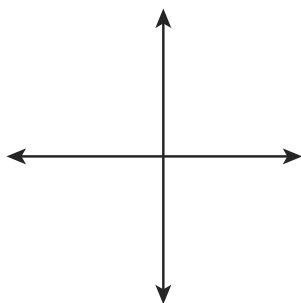


Diagram B

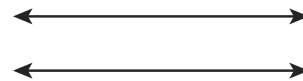


Diagram C

Explain your answer.

40

The workers at Cameron’s Flower Shop are putting 1,323 flowers into vases for a party. Each vase must hold exactly 8 flowers. What is the total number of vases the workers can fill completely?

Show your work.

Answer _____ vases

GO ON

- 41** Samantha walks a total of $\frac{2}{3}$ mile to get to and from school each day. Write an expression that can be used to find the total number of miles that Samantha walks to and from school over 5 days. Then evaluate the expression.

Expression _____

Show your work.

Answer _____ miles walked

GO ON

42

Cindy recycled 54 pounds of paper. She recycled 9 times as many pounds of paper as Monica. Write an equation that can be used to find m , the number of pounds of paper Monica recycled. Then solve the equation to find the number of pounds of paper Monica recycled.

Show your work.

Answer $m =$ _____ pounds of paper

GO ON

- 43** Of the animals at a pet show, $\frac{3}{8}$ were cats and $\frac{4}{8}$ were dogs. The rest of the animals were rabbits. What fraction of the animals at the pet show were rabbits?

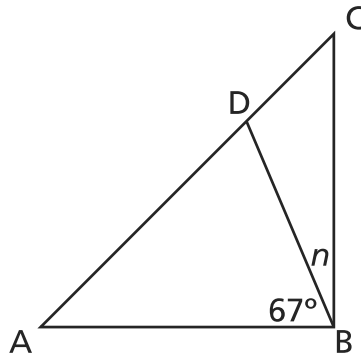
Show your work.

Answer _____

GO ON

44

Right triangle ABC is shown below.



Write an equation that can be used to determine the angle measure, in degrees, of angle DBC. Let n represent the measure of angle DBC. Then determine the measure of n .

Show your work.

Answer $n =$ _____ degrees

GO ON

45

A teacher buys 8 packs of orange erasers and 6 packs of blue erasers for his classroom. There are 24 orange erasers in a pack and 28 blue erasers in a pack. What is the total number of erasers the teacher buys for his classroom?

Show your work.

Answer _____ erasers

STOP