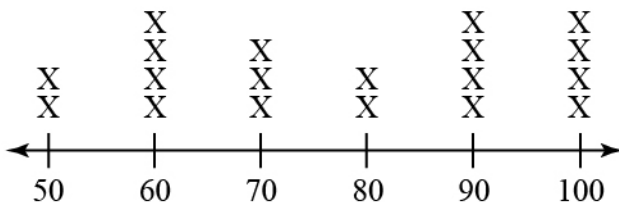


1. The recorded high temperatures for five days in March were  $73^{\circ}\text{F}$ ,  $56^{\circ}\text{F}$ ,  $61^{\circ}\text{F}$ ,  $64^{\circ}\text{F}$ , and  $56^{\circ}\text{F}$ .

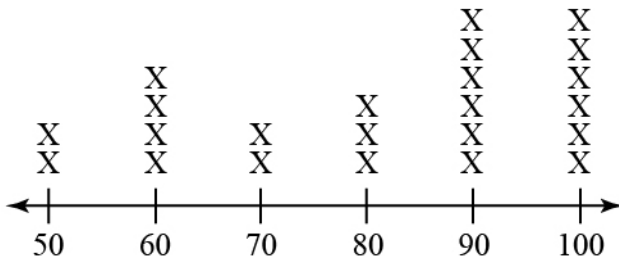
What is the mean of this data set?

- A  $61^{\circ}\text{F}$
- B  $17^{\circ}\text{F}$
- C  $56^{\circ}\text{F}$
- D  $62^{\circ}\text{F}$

2. These line plots show results of a 10-question quiz given to two classes.



**Class A**



**Class B**

Which statement compares the medians of the two classes?

- A The median of Class A is 5 less than the median of Class B.
- B The median of Class A is 5 more than the median of Class B.
- C The median of Class A is 10 less than the median of Class B.
- D The median of Class A is 10 more than the median of Class B.

3. The heights of the people in Fernando's family are 46 inches, 39 inches, 68 inches, 49 inches, and 68 inches. What is the range of their heights?

- A 22 inches
- B 29 inches
- C 54 inches
- D 68 inches

4. Nora's golden retriever is 56 centimeters tall.

How tall, in millimeters, is Nora's golden retriever?

- A 5600
- B 560
- C 0.56
- D 5.6

5. Jenna measures her brother's height as 4 feet 5 inches.

How tall, in inches, is Jenna's brother?

- A 37
- B 45
- C 53
- D 69

6. Leah measures the length of her closet. It is 5 feet long. How many *inches* long is the closet?

1 foot = 12 inches

**A** 60 inches

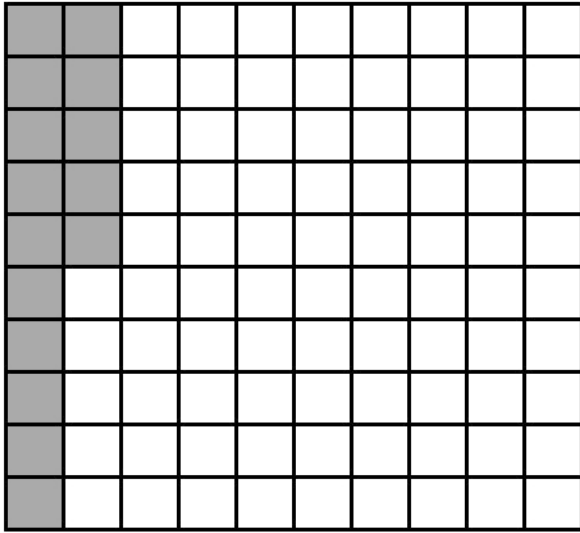
**B** 50 inches

**C**  $\frac{5}{10}$  inch

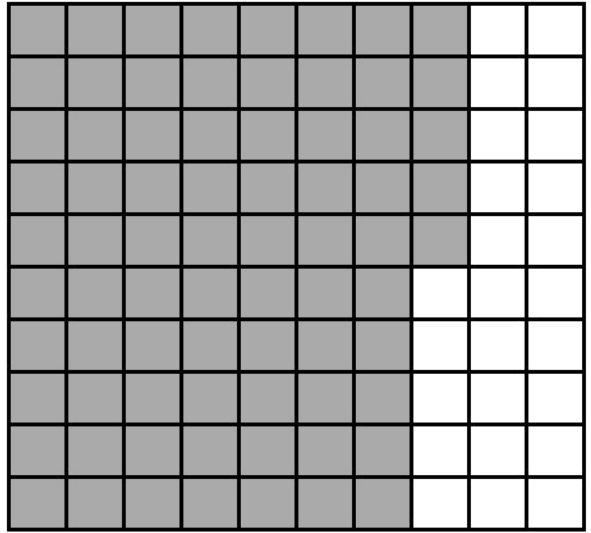
**D**  $\frac{5}{12}$  inch

7. Which of these shows 25% shaded?

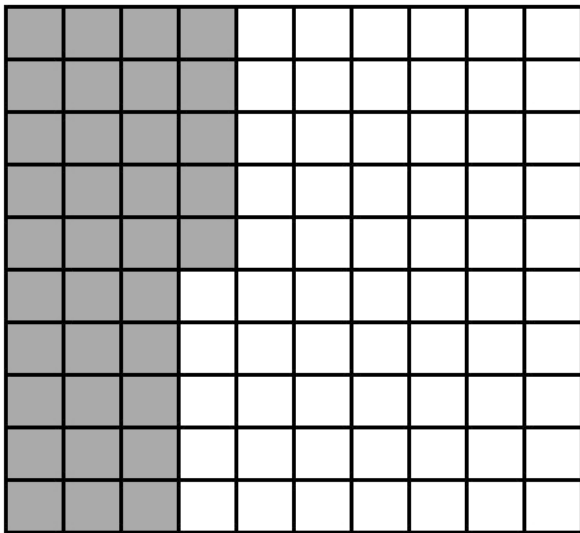
**A**



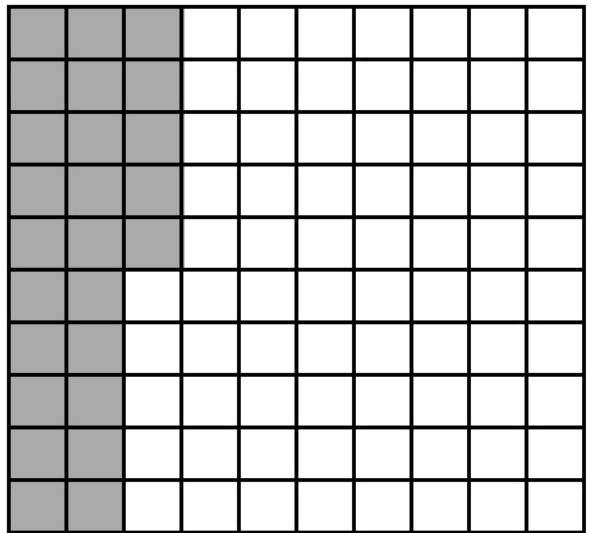
**C**



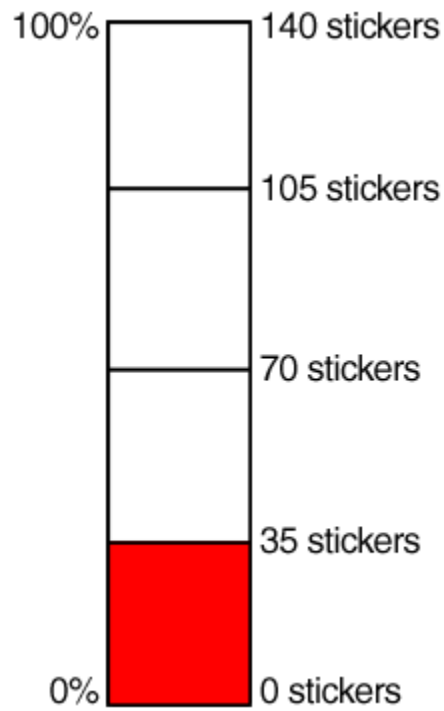
**B**



**D**



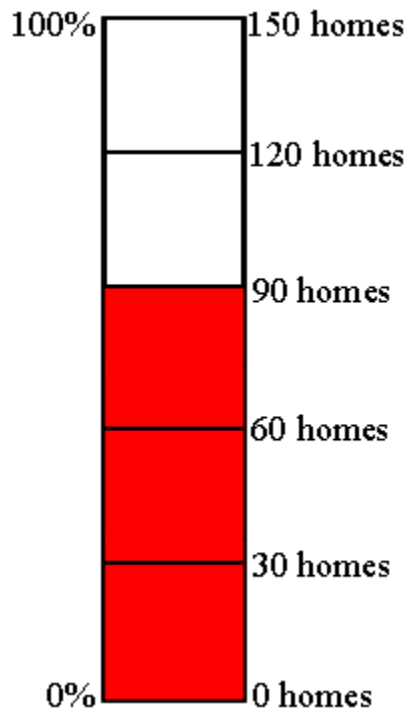
8. Devorah has 140 stickers in her sticker collection. 35 of the stickers in her collection are scratch-and-sniff stickers.



What percentage of the stickers in Devorah's collection are scratch-and-sniff stickers?

- A 35%
- B 50%
- C 25%
- D 70%

9. The recycling club members are going to 150 homes in the neighborhood to collect newspaper, glass, and plastic. By 1:00 p.m., club members had collected material from 90 homes.



Members collected materials from what percentage of homes by 1:00 p.m.?

- A 75%
- B 60%
- C 50%
- D 30%

10. Which fraction represents 3.27 in the lowest terms?

A.  $3\frac{27}{100}$    B.  $3\frac{7}{100}$    C.  $3\frac{20}{50}$    D.  $\frac{27}{100}$

11. Which of these shows 2.173 rounded to the nearest hundredth?

- A 2.2
- B 2.17
- C 2.173
- D 2.18

12. Look at this numeral.

222,222,222

What is the value of the underlined 2?

- A 2 million
- B 2 ten million
- C 2 hundred million
- D 2 hundred thousand

13. Which of these numbers has 6 tens?

- A 865
- B 586
- C 658
- D 608

14. Look at this number.

587

Which of these describes how the value of the number changes if the tens digit in the number is replaced with the digit 4?

- A The new number is 3 less than 587.
- B The new number is 4 less than 587.
- C The new number is 40 less than 587.
- D The new number is 100 less than 587.

15. Look at this number:

76,523.49

Which digit is in the hundredths place?

\_\_\_\_\_

16. Look at the number below:

423.89

Which digit is in the tenths place?

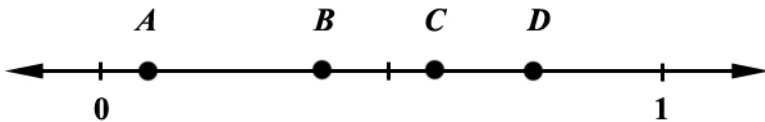
\_\_\_\_\_



17. Rishma had 20 oranges. She made juice with  $\frac{1}{5}$  of the oranges. How many oranges did Rishma use to make the juice?

- A 5
- B 25
- C 15
- D 4

18. Look at the number line shown.



Which letter **best** represents  $\frac{1}{3}$ ?

- A *A*
- B *B*
- C *C*
- D *D*

19. The table shows how far four students jumped in a long-jump contest.

**LONG-JUMP CONTEST**

**Student Distance Jumped (meters)**

Mia	3.4
Ryan	3.07
Amara	3.2
Keegan	3.35

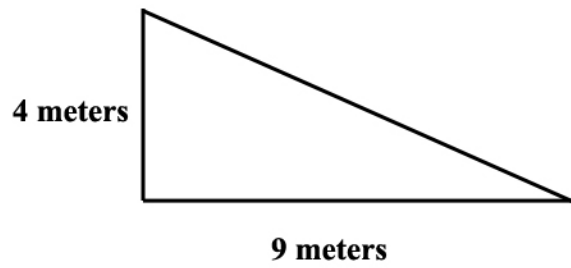
Who jumped the farthest?

- A** Mia
- B** Ryan
- C** Amara
- D** Keegan

20. Which of these decimals is less than 8.33?

- A** 8.25
- B** 8.34
- C** 8.78
- D** 8.42

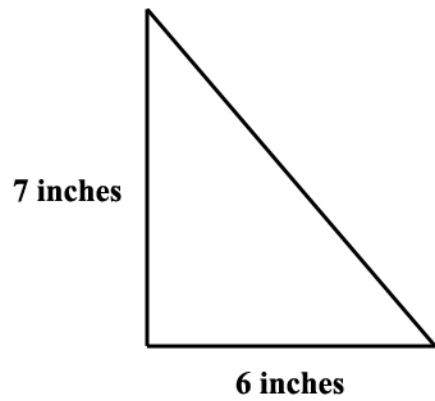
21. Look at the triangle shown.



What is the area of this triangle?

- A 13 square meters
- B 18 square meters
- C 36 square meters
- D 72 square meters

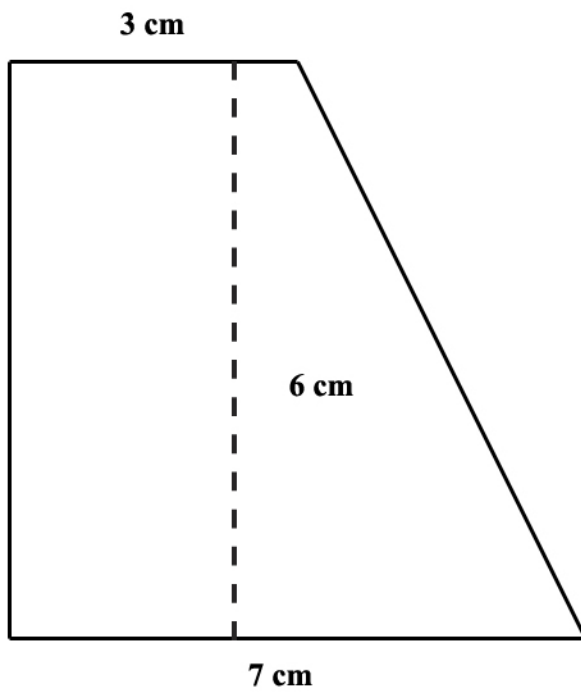
22. Look at the triangle shown.



What is the area of this triangle?

- A 13 square inches
- B 21 square inches
- C 42 square inches
- D 84 square inches

23. Look at the trapezoid.

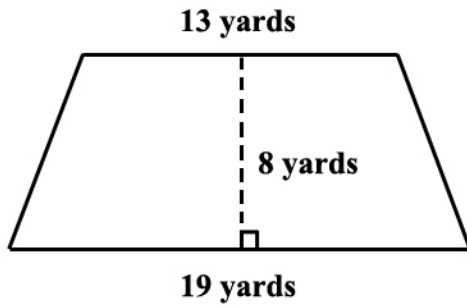


$$\text{Area of a trapezoid} = \frac{1}{2} \times \text{height} \times (\text{base 1} + \text{base 2})$$

What is the area of this trapezoid?

- A** 21 square centimeters
- B** 30 square centimeters
- C** 60 square centimeters
- D** 42 square centimeters

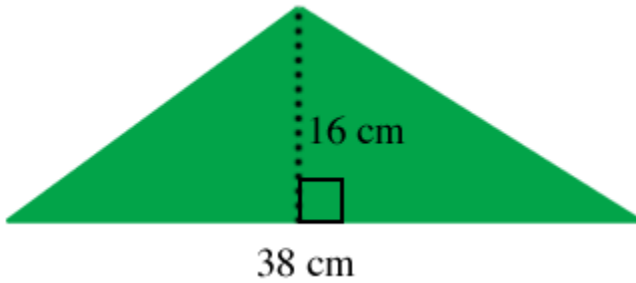
24. Look at this trapezoid.



What is the area of the trapezoid?

- A 256 square yards
- B 128 square yards
- C 76 square yards
- D 104 square yards

25. What is the area of this triangle?



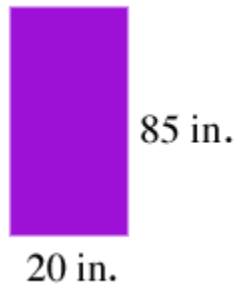
\_\_\_\_\_ cm<sup>2</sup>

26. What is the area of this rectangle?



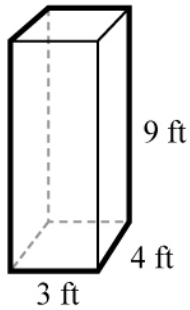
\_\_\_\_\_ ft<sup>2</sup>

27. What is the perimeter of this rectangle?



\_\_\_\_\_ in.

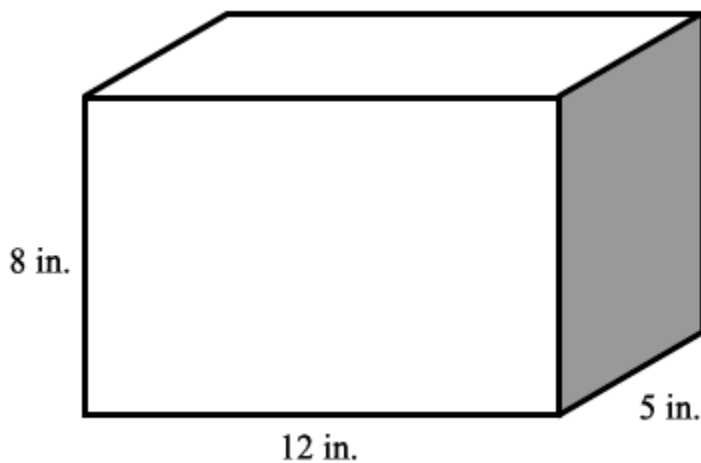
28. Look at this rectangular prism.



What is the volume, in cubic feet, of the prism?

- A 39
- B 63
- C 108
- D 150

29. Jared wants to determine how many craft sticks he can fit into a box with the dimensions shown.

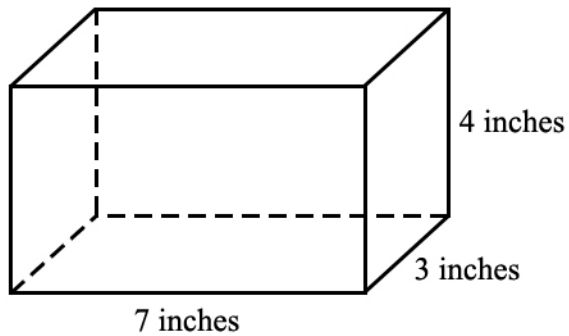


Which expression can Jared use to find the volume of the container?

- A  $12 \times 5 \times 8$
- B  $12 + 5 + 8$
- C  $2(12 \times 5 \times 8)$
- D  $2(12 \times 5) + 2(5 \times 8) + 2(12 \times 8)$

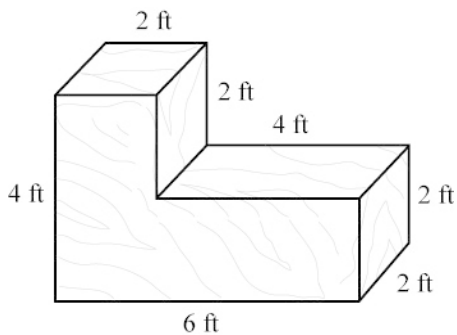


30. Look at the rectangular prism.



What is the volume of the prism?

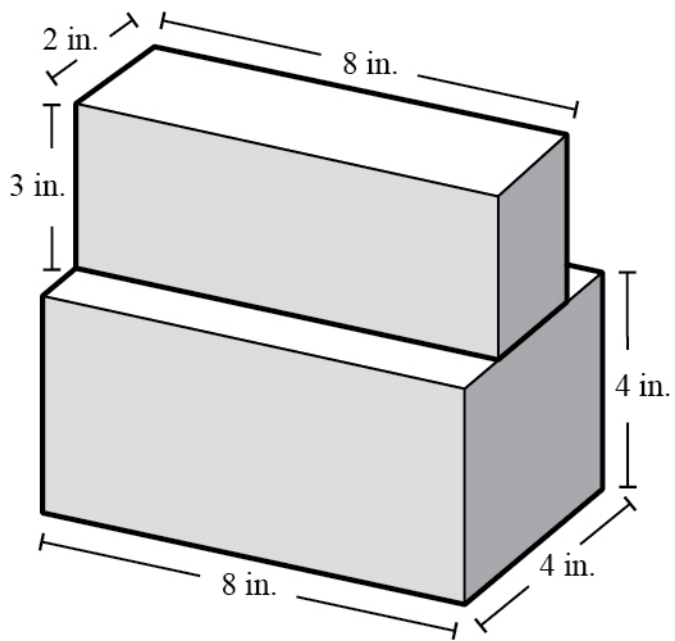
- A 61 cubic inches
  - B 14 cubic inches
  - C 72 cubic inches
  - D 84 cubic inches
31. The picture shows a box used in a magic show. The box is shaped like two connected rectangular prisms.



What is the volume of the box?

- A 22 cubic feet
- B 24 cubic feet
- C 28 cubic feet
- D 32 cubic feet

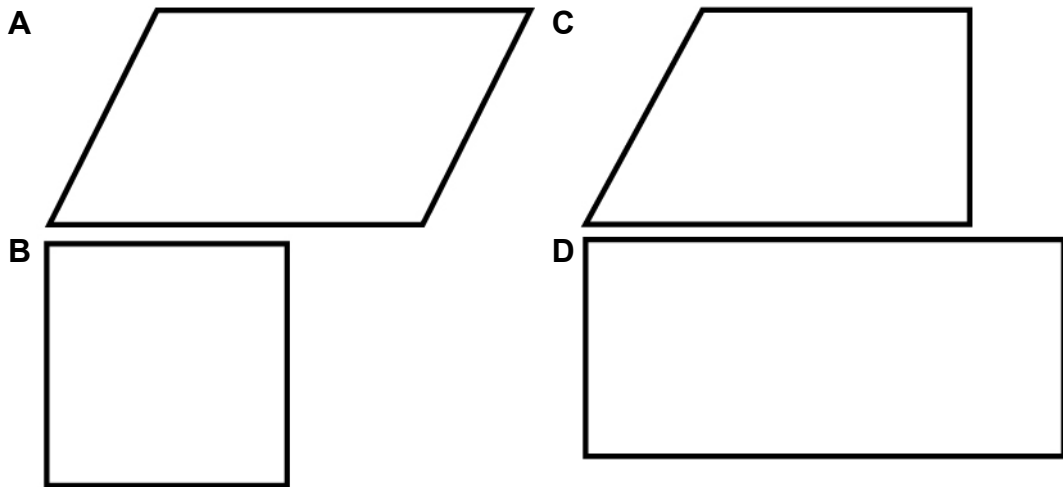
32. Look at the figure that is made of two rectangular prisms.



What is the volume of the entire figure in cubic inches?

- A 128
- B 176
- C 224
- D 256

33. Which shape has two obtuse angles and two acute angles?



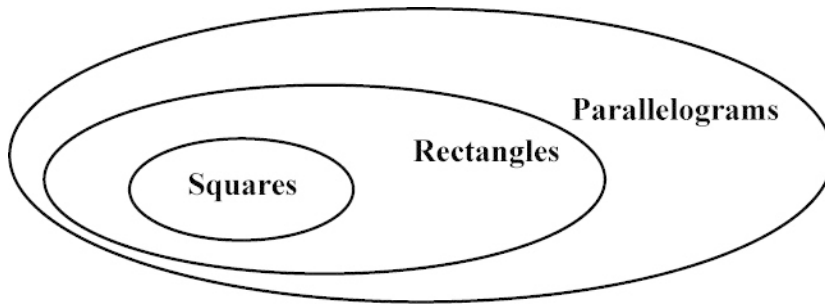
34. The figure below is a trapezoid.



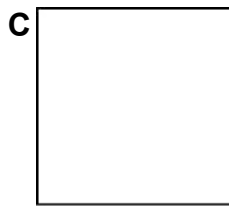
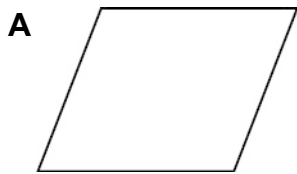
Which statement about the figure is true?

- A The figure has one pair of parallel sides.
- B The figure has 4 right angles.
- C The figure has 2 pairs of congruent sides.
- D The figure has 2 pairs of parallel sides.

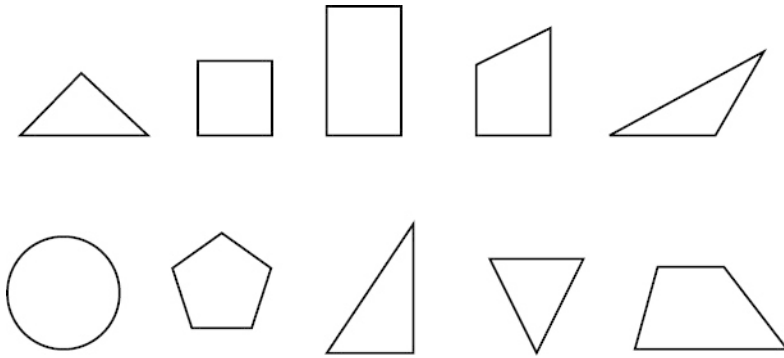
35. The students in Mr. Alonso's class are sorting quadrilaterals into three categories, as shown in the diagram.



Which quadrilateral cannot be sorted into one of the three categories?



36. Peter is classifying shapes in his math class. The picture shows 10 two-dimensional shapes.



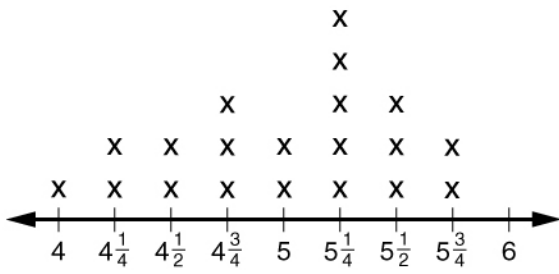
How many shapes appear to have **at least** one right angle and **at least** one pair of parallel sides?

- A 2
- B 3
- C 4
- D 5

37. Which of these describes an attribute that all squares and rectangles have in common?

- A four equal sides
- B four right angles
- C length greater than width
- D exactly one pair of parallel sides

38. This line plot shows the weights, in pounds, of 20 watermelons sold at a store.

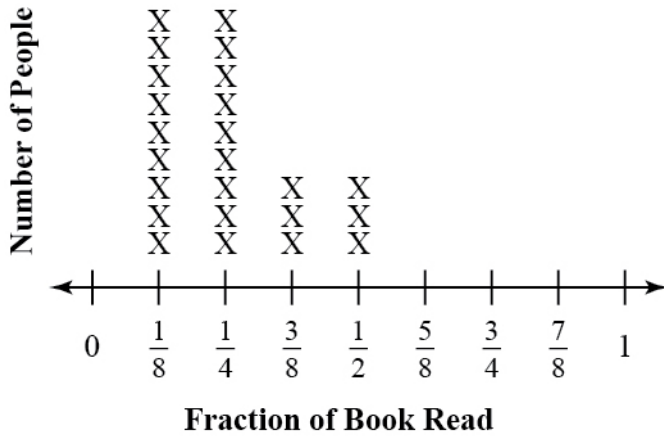


What is the total weight of the watermelons that weigh less than  $4\frac{3}{4}$  pounds?

- A 20
- B  $20\frac{3}{4}$
- C 21
- D  $21\frac{1}{2}$

39. This line plot shows what fraction of a book each person has read.

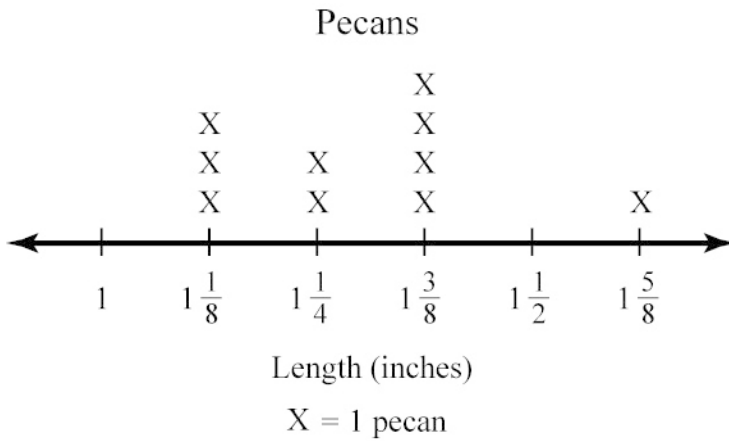
**How Much of the Book Have You Read?**



Which statement is **not** true?

- A** The same number of people have read  $\frac{1}{2}$  of the book as have read  $\frac{3}{8}$  of the book.
- B** The same number of people have read  $\frac{1}{4}$  of the book as have read  $\frac{1}{8}$  of the book.
- C** The number of people who have read  $\frac{1}{4}$  of the book is 4 times the number who have read  $\frac{1}{2}$  of the book.
- D** The number of people who have read  $\frac{1}{8}$  of the book is 3 times the number who have read  $\frac{3}{8}$  of the book.

40. Arlene measured the lengths of 10 pecans. She made this line plot to show the lengths.



What is the difference between the longest pecan Arlene measured and the shortest pecan she measured?

- A**  $\frac{1}{4}$  inch
- B**  $\frac{1}{2}$  inch
- C**  $1\frac{1}{4}$  inches
- D**  $1\frac{1}{2}$  inches
41. What is the value of the expression  $2(18 - 12) \div 3$ ?

- A** 4
- B** 8
- C** 28
- D** 32



42. Evaluate the expression shown.

$$5 \times 6 \div (3 + 2)$$

- A 6
- B 25
- C 12
- D 20

43. David has 7.2 meters of rope. He uses 0.4 of the total rope to tie some boxes together. How much rope has David used?

- A 0.288 meters
- B 2.88 meters
- C 28.8 meters
- D 288 meters

44. Silvia had  $\frac{7}{9}$  cup of vinegar. She used  $\frac{1}{4}$  cup of vinegar in a recipe. How much vinegar does Silvia have left?

- A  $\frac{19}{36}$  cup
- B  $\frac{19}{9}$  cups
- C  $\frac{1}{4}$  cup
- D  $\frac{6}{13}$  cup

45.

Freddy has  $\frac{3}{4}$  of a cup of trail mix.  $\frac{1}{4}$  of the trail mix is peanuts. How much of the trail mix is peanuts?

- A  $\frac{1}{4}$
- B  $\frac{3}{4}$
- C  $\frac{5}{16}$
- D  $\frac{3}{16}$

46.

Russ has  $\frac{1}{4}$  of a bag of dog food. Every night for 5 nights, he gives his dog an equal amount of the food until it is all gone. How much food does he give his dog each night?

- A  $\frac{1}{5}$
- B  $\frac{1}{10}$
- C  $\frac{4}{5}$
- D  $\frac{1}{20}$

47.

Andrea made some lasagna. She ate  $\frac{1}{3}$  of it. Her brothers ate  $\frac{1}{2}$  of it. How much of it did they all eat?

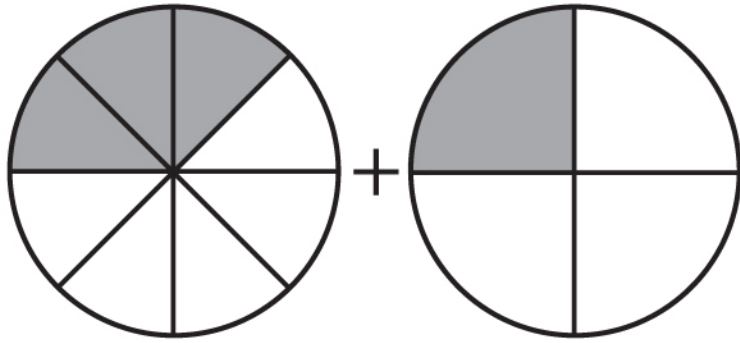
- A  $\frac{2}{5}$
- B  $\frac{3}{4}$
- C  $\frac{5}{12}$
- D  $\frac{5}{6}$

48.

Carlos had  $\frac{4}{5}$  pound of strawberries. Greg had  $\frac{2}{3}$  pound of strawberries. How much more did Carlos have than Greg?

- A  $\frac{1}{5}$
- B  $\frac{4}{15}$
- C  $\frac{2}{15}$
- D  $\frac{7}{15}$

49. Look at these pictures.



What is the sum of  $\frac{3}{8} + \frac{1}{4}$ ?

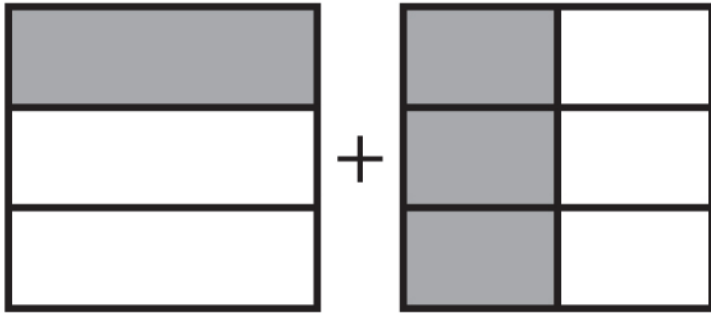
**A**  $\frac{5}{8}$

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

**C**  $\frac{4}{12}$

**D**  $\frac{1}{4}$

50. Look at these pictures.



What is the sum of  $\frac{1}{3} + \frac{3}{6}$ ?

**A**  $\frac{4}{9}$

**B**  $\frac{5}{6}$

**C**  $\frac{1}{6}$

**D**  $\frac{4}{6}$

51. Jennifer gave  $\frac{3}{4}$  of her beads to Stacey and  $\frac{1}{6}$  of her beads to Jeremy. What fraction of her beads did Jennifer give away in all?

A  $\frac{2}{3}$

B  $\frac{2}{5}$

C  $\frac{1}{3}$

D  $\frac{11}{12}$

52. Solve the problem below:

$$8\frac{5}{9} - 4\frac{1}{3} =$$

A.  $4\frac{4}{6}$    B.  $4\frac{4}{9}$    C.  $4\frac{2}{9}$    D.  $\frac{2}{9}$

53. Solve the problem below:

$$3\frac{1}{4} + 2\frac{3}{8} =$$

A.  $5\frac{4}{12}$    B.  $5\frac{4}{8}$    C.  $\frac{5}{8}$    D.  $5\frac{5}{8}$

54. Solve the problem below:

$$81 \div (12 - 3) = \underline{\hspace{2cm}}$$

55. Solve the problem below:

$$30 + (3 \times 6) = \underline{\hspace{2cm}}$$

56. Find the quotient.

$$23 \overline{)368}$$

- A** 26
- B** 160
- C** 16
- D** 15

57. Solve the problem below:

$$\begin{array}{r} 29 \\ \times 53 \\ \hline \end{array}$$

\_\_\_\_\_

58. What is the product of  $1,127 \times 12$ ?

- A 13,424
- B 3,381
- C 13,524
- D 33,810

59. Theresa earns \$1,350 each paycheck. What total amount does she earn if she receives 26 paychecks?

- A \$10,800
- B \$25,100
- C \$32,800
- D \$35,100