



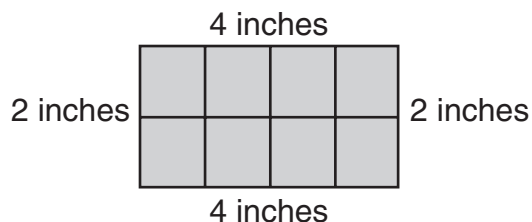


- 1** Miguel practices his trumpet 5 hours each week. Which equation can be used to find the number of hours he practices in 3 weeks?

- (A)  =  $5 + 3$
- (B)  =  $5 - 3$
- (C)  =  $5 \div 3$
- (D)  =  $5 \times 3$

- 2** What is the area of this rectangle?



- (A)  $4 + 2 = 6$   
6 square inches
- (B)  $4 \times 2 = 8$   
8 square inches
- (C)  $4 + 2 + 4 + 2 = 12$   
12 square inches
- (D)  $4 \times 2 \times 4 \times 2 = 64$   
64 square inches





- 3** A fraction of each fraction bar is shaded.



Which comparison of the fractions is true?

- (A)  $\frac{1}{2} > \frac{1}{3}$
- (B)  $\frac{1}{2} < \frac{1}{3}$
- (C)  $\frac{1}{3} > \frac{1}{2}$
- (D)  $\frac{1}{3} = \frac{1}{2}$

- 4** Leila has 12 pictures. She puts them in 4 equal rows. Which equation can be used to find the number of pictures in each row?

- (A)  =  $12 - 4$
- (B)  =  $12 \div 4$
- (C)  =  $12 + 4$
- (D)  =  $12 \times 4$

- 5 Mia made this table to show the number of people who attend a school science fair.

Science Fair

Day	Number of People
Thursday	138
Friday	271
Saturday	309
Sunday	385

How many more people attend the fair on Sunday than Thursday?

- (A) 243  
(B) 247  
(C) 253  
(D) 257





- 6 Felipe is painting a fence that is 4 feet tall and 10 feet long. He has painted 24 square feet of the fence so far. How many square feet of fence does Felipe have left to paint?

- (A) 4 square feet  
(B) 6 square feet  
(C) 14 square feet  
(D) 16 square feet

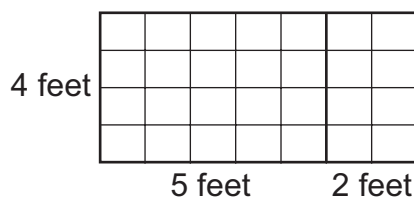
- 7 This shape has  $\frac{6}{8}$  shaded.



Which shape has an equivalent fraction shaded?

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

- 8 Which equation can be used to find the area,  $a$ , of this rectangle in square feet?



- (A)  $4 \times (5 \times 2) = a$   
(B)  $4 \times (5 + 2) = a$   
(C)  $2 \times (4 + 7) = a$   
(D)  $2 \times (4 \times 5) = a$

- 9 There were 297 tickets to the ball game sold on Friday and 123 on Saturday. How many tickets were sold on the two days?

(A) 310 (C) 410  
(B) 320 (D) 420

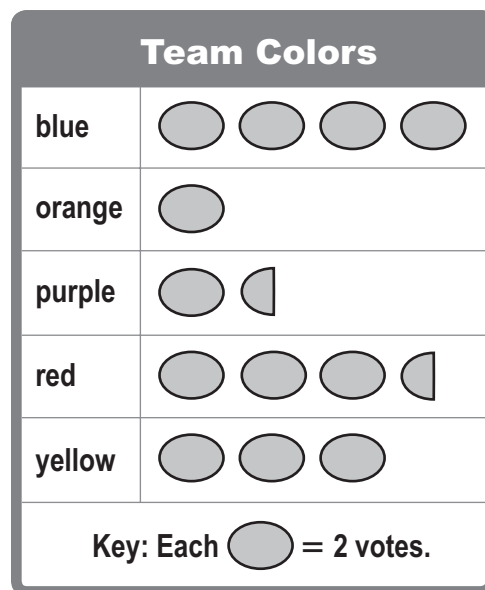
- 10 Ms. Wong is setting up 40 chairs for a play. If she places an equal number of chairs in each row, which of these could be the number of rows she makes?

(A) 3 (C) 8  
(B) 6 (D) 9

- 11 Emma's bowl holds 36 grams of rice. She is filling the bowl using a spoon that holds 4 grams of rice. How many spoons of rice will Emma need to fill her bowl?

(A) 6 (C) 9  
(B) 8 (D) 40

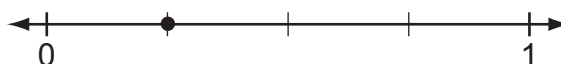
- 12 The children on the soccer team voted on the team colors. The results are shown on this graph.



How many fewer children chose purple than blue?

(A) 2 (C) 4  
(B) 3 (D) 5

- 13 What fraction is represented by the point on this number line?



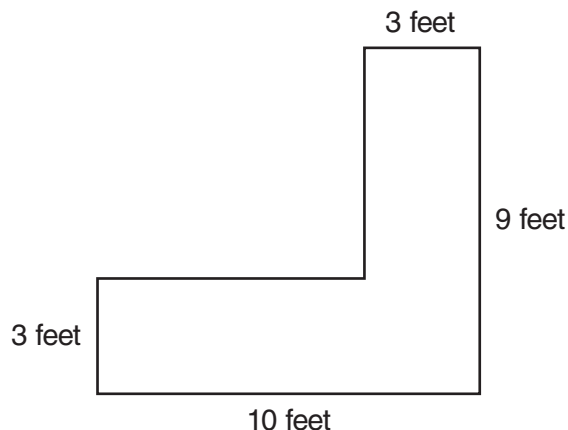
(A)  $\frac{4}{1}$  (C)  $\frac{3}{1}$   
(B)  $\frac{1}{4}$  (D)  $\frac{1}{3}$

- 14** Which group of shapes are quadrilaterals with at least two sides that are the same length?
- Ⓐ square, circle, hexagon
  - Ⓑ rhombus, square, rectangle
  - Ⓒ hexagon, rectangle, triangle
  - Ⓓ rhombus, triangle, trapezoid

- 15** Hector has 9 boxes. He puts 7 toy cars in each box. How many toys cars does Hector put in boxes?

Ⓐ 16                      Ⓒ 56  
Ⓑ 54                      Ⓓ 63

- 16** The Wilsons ordered new carpet for their hall. This drawing shows the measurements of the hall in feet.



What is the area of the hall in square feet?

- Ⓐ 38 square feet
- Ⓑ 39 square feet
- Ⓒ 48 square feet
- Ⓓ 57 square feet

- 17** Ava has six pages left to read in her book. She reads  $\frac{1}{2}$  of the pages before dinnertime. Which is another way to show the fraction of the pages Ava reads before dinner?

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

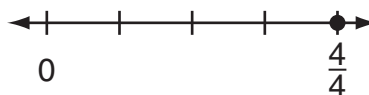
- 18** Henry orders 3 packages of prizes. Each package contains 20 prizes. How many prizes does Henry order?

(A) 5                      (C) 50  
(B) 6                      (D) 60

- 19** Leona took 15 juice boxes with her for a 6-day campout. She drank the same number of juice boxes each day. Leona brought 3 of the juice boxes home with her. Which equation can be used to find the number of juice boxes,  $n$ , she drank each day?

(A)  $12 \div n = 6$   
(B)  $12 \div n = 3$   
(C)  $15 \div n = 3$   
(D)  $18 \div n = 6$

- 20** Jeremy folds a paper into 4 equal parts. He colors all 4 parts. The point on this number line represents the fraction of the paper he colors.



Which of these is equivalent to  $\frac{4}{4}$ ?

(A)  $\frac{1}{4}$                       (C) 1  
(B)  $\frac{4}{1}$                       (D) 4

- 21** A rectangle has a length of 6 centimeters and a width of 6 centimeters. Which of these are the measurements of a rectangle with the same area, but a different perimeter?

(A) length of 9 centimeters, width of 4 centimeters  
(B) length of 8 centimeters, width of 4 centimeters  
(C) length of 7 centimeters, width of 5 centimeters  
(D) length of 10 centimeters, width of 8 centimeters

- 22** In the cafeteria, 54 chairs are placed at 9 tables. This equation can be used to find the number of chairs placed at each table.

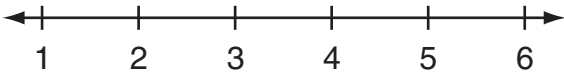
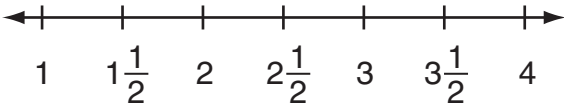
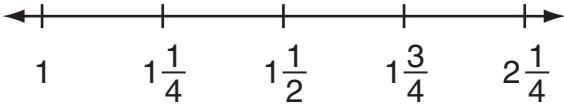
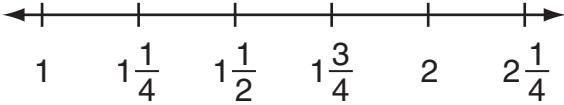
$$c \times 9 = 54$$

If  $c$  represents the number of chairs, how many chairs are placed at each table?

- (A) 6                      (C) 8  
(B) 7                      (D) 9

- 23** Nick measured the lengths of some nails. He made the table to show the lengths. Now Nick needs to put the lengths on a line plot.

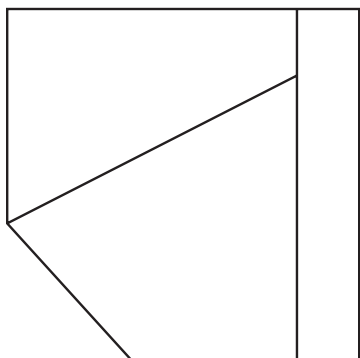
Which of these is the correct number line for Nick's line plot?

- (A)   
Length (in inches)
- (B)   
Length (in inches)
- (C)   
Length (in inches)
- (D)   
Length (in inches)

**Nails**

Length (in inches)	Number of Nails
1	4
$1\frac{1}{4}$	2
$1\frac{1}{2}$	4
$1\frac{3}{4}$	4
$2\frac{1}{4}$	6

- 24** This design has been made using several different shapes.



What is the total number of quadrilaterals in the design?

- Ⓐ 4                      Ⓒ 2  
Ⓑ 3                      Ⓓ 1

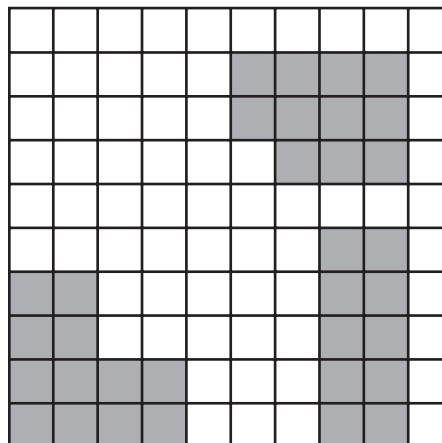
- 25** Toni buys 3 six-packs of water. Toni writes this equation to find the total number of bottles of water.

$$3 \times 6 = \square$$

Which of these is another equation Toni could use to find the total number of bottles?

- Ⓐ  $(2 \times 6) + 2 = \square$   
Ⓑ  $(2 \times 6) + 3 = \square$   
Ⓒ  $(3 \times 5) + 6 = \square$   
Ⓓ  $(2 \times 6) + 6 = \square$

- 26** The Anderson family has moved into a new house. The shaded parts on the grid show the size of each flower bed in their yard.



$\square = 1$  square foot

What is the area of the largest flowerbed?

- Ⓐ 16 square feet  
Ⓑ 14 square feet  
Ⓒ 12 square feet  
Ⓓ 11 square feet

- 27** What fraction is represented by the point on this number line?



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

- 28** Jadon makes 8 costumes using 64 buttons. Each costume is made with the same number of buttons. Which equation can be used to find the number of buttons Jadon uses on each costume?

- (A)  $8 \times 64 = \square$   
 (B)  $8 \div 64 = \square$   
 (C)  $\square \times 8 = 64$   
 (D)  $\square \times 64 = 8$

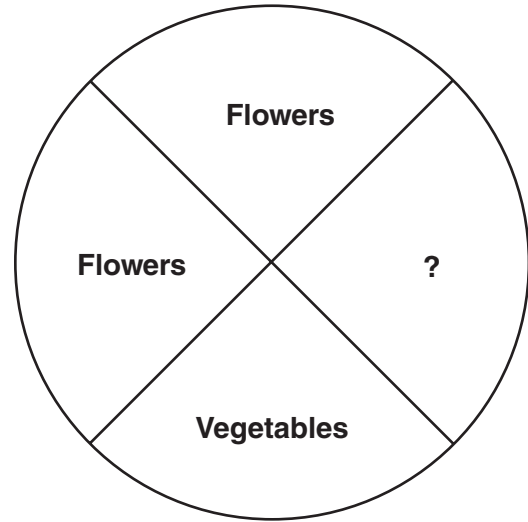
- 29** This table contains a pattern.

<b>Bicycles</b>	1	2	3	4	5
<b>Wheels</b>	2	4	6		

What 2 numbers will correctly extend the pattern?

- (A) 8 and 10  
 (B) 5 and 10  
 (C) 6 and 8  
 (D) 4 and 8

- 30** Mr. Pilson draws this plan for a garden. He plants flowers in 2 parts of the garden and vegetables in another part. One part is left to plant with grass.



Which of these represents the part of the garden left to plant with grass?

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