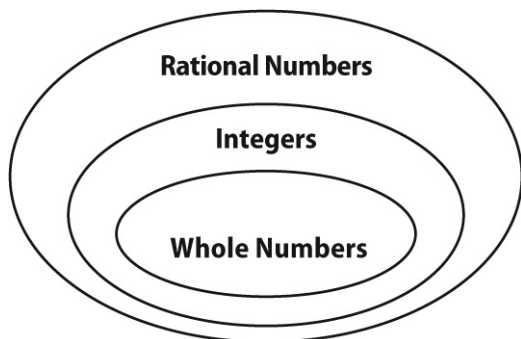
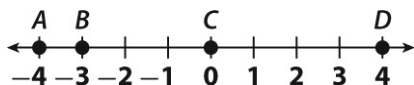


Placement Test

1. To which set or sets below does the number $-\frac{7}{8}$ belong?



- A whole numbers only
 B rational numbers only
 C integers and rational numbers only
 D whole numbers, integers, and rational numbers
2. Which of the following points is graphed at the opposite of -4 on the number line below?



- A A C C
 B B D D
3. Jamal plotted points on a number line at the four values below.

$$0.27, -\frac{1}{4}, 1.1, \frac{5}{3}$$

Which of these values is farthest from zero?

- A 0.27 C 1.1
 B $-\frac{1}{4}$ D $\frac{5}{3}$
4. Harriet recorded outdoor temperatures as -7°C , -2°C , and 1°C . Which of the following correctly compares the three temperatures?
- A $-7 < 1 < -2$ C $-2 < 1 < -7$
 B $1 < -2 < -7$ D $-7 < -2 < 1$

5. Which of the following is equivalent to the expression below?

$$\frac{2}{9} \times \frac{3}{4}$$

- A $\frac{2}{9} \div \frac{3}{4}$ C $\frac{2}{9} \div \frac{4}{3}$
 B $\frac{3}{4} \div \frac{2}{9}$ D $\frac{9}{2} \div \frac{4}{3}$

6. What is the greatest common factor of 12 and 48?

- A 12 C 36
 B 24 D 48

7. What is the least common multiple of 5 and 12?

- A 24 C 36
 B 30 D 60

8. Abby is making frozen popsicles using $5\frac{3}{4}$ cups of fruit juice and $1\frac{3}{4}$ cups of

water. Abby mixes the fruit juice and water together. She will then pour the mixture into popsicle molds. Each mold will hold $\frac{1}{2}$ cup. How many popsicles can

Abby make?

- A 7 C 20
 B 15 D 24

9. Zoe is making a quilt using 15 red squares and 30 green squares. Which combination shows the same ratio of red squares to green squares?

- A 3 red squares to 6 green squares
 B 6 red squares to 3 green squares
 C 5 red squares to 12 green squares
 D 12 red squares to 5 green squares

Placement Test

10. Last year, a local amusement park received 286,758 visitors. It was open every day of the year except 7 holidays. What was the average number of visitors to the park per day?

A 786 visitors C 957 visitors
 B 801 visitors D 1,204 visitors

11. Dennis ran a mile in 593.7 seconds. Martina ran a mile in 573.36 seconds. What was the difference in their running times?

A 5.14 s C 20.34 s
 B 6.01 s D 26.01 s

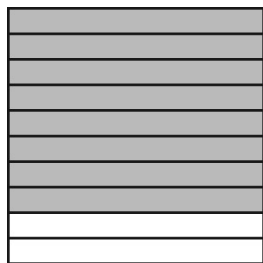
12. In Ellen's math class, there are 2 boys for every 3 girls. Which of the following could be the ratio of boys to girls in the class?

A $\frac{17}{21}$ C $\frac{7}{14}$
 B $\frac{14}{21}$ D $\frac{11}{17}$

13. Seth bought a 12-ounce jar of peanut butter for \$3.60. What is the unit price?

A \$0.03/oz C \$3.00/oz
 B \$0.30/oz D \$3.03/oz

14. What percent of the rectangle below is shaded?

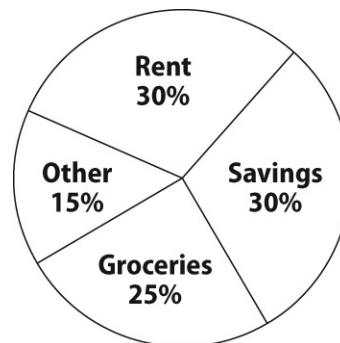


A 20% C 40%
 B 30% D 80%

15. Yvette measured the length of her driveway to be 5 meters long. Which of these is an equivalent measurement?

A 0.07 mi C 16.4 ft
 B 15.5 yd D 585 in.

16. Jason's budget is shown in the circle graph below. His total monthly budget is \$3,000. How much does Jason spend on groceries?



A \$25 C \$450
 B \$150 D \$750

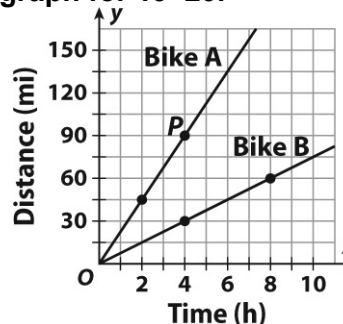
17. Mary bought 10 quarts of juice at the grocery. How many gallons of juice did she buy?

A 1.4 gal C 3.5 gal
 B 2.5 gal D 4.5 gal

18. On a certain map, 3 inches represents 15 miles. Briarwood and Middletown are 5 inches apart on the map. What is the actual distance between Briarwood and Middletown?

A 25 mi C 50 mi
 B 30 mi D 75 mi

Use the graph for 19–20.



19. What are the coordinates of point P?

A (4, 3) C (4, 90)
 B (4, 30) D (40, 90)

Placement Test

20. What is the independent variable?

- | | |
|----------|------------|
| A Bike A | C time |
| B Bike B | D distance |