

## 3.4 Practice A/B (2 day class work)

Solve the equation.

1.  $1.5q = -8.4$       2.  $\frac{1}{5}d = -3$       3.  $14 = 3y$       4.  $\frac{g}{2.1} = -6.8$       5.  $-\frac{3}{5}a = 2$

6.  $\frac{k}{-9} = -\frac{1}{3}$       7.  $\frac{5}{8}j = -10$

Write the word sentence as an equation. Then solve.

8. A number multiplied by  $\frac{1}{2}$  is  $-\frac{5}{12}$ .      9. The quotient of a number and 0.2 is  $-2.6$ .

In Exercises 10–14, write an algebraic equation. Then solve.

10. You earn \$7.50 per hour at a fast food restaurant. You earned \$123.75 last week. How many hours did you work last week?

11. Your family took a road trip on Saturday. You were in the car for 4.5 hours and averaged 70 miles per hour. How many miles did you travel?

12. The area of a rectangle is  $\frac{1}{2} \text{ in}^2$ . The length of the rectangle is  $\frac{3}{8}$  in. What is the width of the rectangle?

13. You are in a room with other students and are asked to get in groups of 3. When finished, there are 21 groups of 3. How many students are in the room?

14. The perimeter of a square is 26.46 inches. What is the side length of the square?

Solve the equation.

15.  $\frac{d}{1.2} = -3.3$

16.  $-\frac{8}{15}k = -4$

17.  $-7.24q = 17.014$

18.  $\frac{1}{8}d = -\frac{3}{5}$

19.  $\frac{k}{-9} = -1$

20.  $18 = -\frac{6}{11}h$

21.  $-\frac{10}{21}c = -\frac{15}{28}$

In Exercises 22-25, write an algebraic equation. Then solve.

22. You order an entree for \$12.00. You pay \$0.78 in taxes. What is the tax rate?

23. If a project is handed in late, you receive  $\frac{8}{9}$  of your earned points. You received 72 points on your late project. How many points did you lose?

24. There are 92 students in a room. They are separated into 18 groups. How many students are in each group? How many students are not in a group?

25. A bus token costs \$1.75.

a. You spend \$15.75 on tokens. Write and solve an algebraic equation to find how many tokens you purchase.

b. If you purchase 10 tokens, you get 2 free tokens. Write and solve an algebraic equation to find the approximate reduced price of each token.

c. You also receive free tokens if you purchase 20 tokens. The reduced price for each token is \$1.40. Write and solve an equation to find how many free tokens you receive.