

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Worksheet 2.R: Equations Review | Chapter 2

**Solve each equation. Check your solution.** (See Lesson 1)

*Learning Goal: I can solve equations with rational coefficients. (8.EE.7a, 7b)*

1.  $-24 = -\frac{6}{7}p$

2.  $\frac{2}{3}a = 12$

3.  $1\frac{7}{8}y = 4\frac{1}{2}$

4.  $10.8 = 0.9n$

**Solve each two-step equation.** (See Lesson 2)

*Learning Goal: I can solve two-step equations. (8.EE.7a, 7b)*

5.  $2x + 3 = 7$

6.  $3x + 2 = 20$

7.  $-1 = \frac{1}{2}a + 9$

8.  $\frac{n}{-3} - 2 = -18$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Worksheet 2.R: Equations Review | Chapter 2

**Solve each equation.** (See Lesson 4)

*Learning Goal: I can solve equations with variables on each side of the equal sign. (8.EE.7a, 7b)*

9.  $8 + x = 3x$

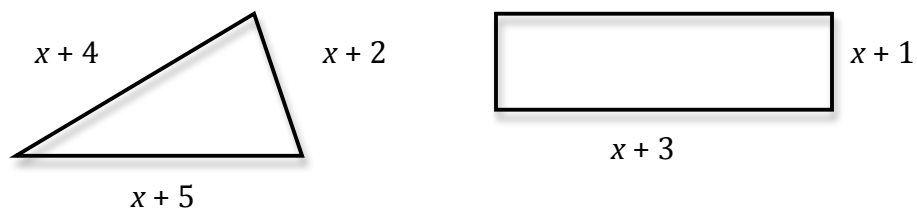
10.  $3x + 6 = 6x$

11.  $3x + 3 = x - 5$

12.  $2x + 5 = 4x - 1$

**Write an equation to find the value of  $x$  so that each pair of polygons has the same perimeter. Then solve.** (See Lesson 4)

13.



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Worksheet 2.R: Equations Review | Chapter 2

**Solve each equation.** (See Lesson 5)

*Learning Goal: I can solve equations with multiple steps. (8.EE.7a, 7b)*

14.  $9(j - 4) = 81$

15.  $-3(9 + x) = 33$

16.  $5(a - 7) = 25$

17.  $2(10 + t) = 4t - 2$

**Solve each absolute value equation.** (See Lesson 6)

*Learning Goal: I can solve absolute value equations. (8.EE.7c)*

18.  $|-4w + 2| = 14$

19.  $\left|\frac{3}{4}a - 3\right| = 9$

20.  $|-4d + 6| = 18$

21.  $|x - 6| = 11$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Worksheet 2.R: Equations Review | Chapter 2

**For each of the following problems, define your variable. Then write and solve an equation to determine the answer.** (See Lessons 3 and 4)

*Learning Goal: I can write and solve multi-step equations. (8.EE.7a, 7b)*

22. Hannah joined a dance team. She had to buy a new pair of shoes for \$55, and each month of dance classes costs \$35. If she spent a total of \$265 at the dance studio, how many months of classes did she pay for?

23. Matilda loves reading so much that she has to restrain herself. She wants to read a book that will take about 20 hours to read. She will only let herself read for four hours at a time. She has already read for 8 hours. How many more reading sessions (of four hours each) REMAIN?

24. Morgan is four years older than twice the age of Chad. If Morgan is 56, how old is Chad?