

8 - Exercises - Chapter 2

Name Answer Key
Hour 1

Lesson 2.1 Practice

Solve Equations with Rational Coefficients

Solve for the variable.

1. $\frac{1}{6}x = 4$

$$x = 24$$

2. $\frac{5}{6}n = 15$

$$n = 18$$

3. $\frac{2}{3}d = \frac{14}{15}$

$$d = 1.4 = 1\frac{2}{5}$$

Lesson 2.2 Practice

Solve Two-Step Equations

Solve for the variable.

4. $2d + 7 = 9$

$$d = 1$$

5. $11 = 3z + 5$

$$z = z$$

6. $-4 - 2s = 6$

$$s = -5$$

7. $\frac{2+a}{6} = 5$

$$a = 28$$

8. $-10 = 6 - 4m$

$$4 = m$$

9. $24 = \frac{m-5}{4}$

$$101 = m$$

8 – Exercises – Chapter 2

Lesson 2.3 Practice

Write each sentence as an equation.

10. Five more than twice a number is 7.

$$5 + 2n = 7$$

12. Two more than four times a number is -10 .

$$2 + 4n = -10$$

Lesson 2.4 Practice

Solve each equation. Check your solution.

14. $6s - 10 = s$

$$2 = s$$

17. $k + 20 = 9k - 4$

$$3 = k$$

15. $8r = 4r - 16$

$$r = -4$$

18. $-4b - 5 = 3b + 9$

$$-2 = b$$

16. $25 - 3u = 2u$

$$5 = u$$

19. $1.6h - 72 = 4h - 30$

$$17.5 = h$$

Write Two-Step Equations

11. Eight less than three times a number is -14 .

$$3n - 8 = -14$$

13. Three more than the quotient of a number and 2 is 7.

$$3 + \frac{n}{2} = 7$$

Solve Equations with Variables on Each Side

8 - Exercises - Chapter 2

Lesson 2.5 Practice

Solve Multi-Step Equations

Solve each equation. Check your solution.

$$20. 2(3b - 1) = 40$$

$$b = 7$$

$$21. 49 = -7(t + 1)$$

$$t = -8$$

$$22. 5(1 - n) = 75$$

$$n = 14$$

$$23. 4(x - 2) = 3(x - 3)$$

$$x = -1$$

$$24. -5(p + 2) = 2(2p - 15) + p$$

$$p = 2$$

$$25. 4z - 6 = 6(z + 2) + 8$$

$$z = -13$$