

# 1.4 Practice



Go to [BigIdeasMath.com](http://BigIdeasMath.com) to get HELP with solving the exercises.

## ▶ Review & Refresh

Solve the equation. Check your solution, if possible.

1.  $-2x = x + 15$

2.  $4(z - 3) = 2z$

3.  $x - 8 = x - 1$

4.  $5(4 + t) = 5t + 20$

Find the unit rate.

5. 60 miles in 5 hours

6. \$8.50 : 5 ounces

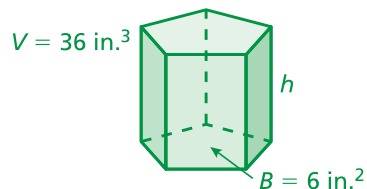
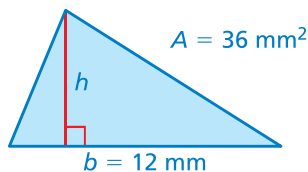
7. 9 pounds per 6 crates

## ▶ Concepts, Skills, & Problem Solving

**REWRITING FORMULAS** Solve the formula for the height of the figure. Then use the new formula to find the height. (See Exploration 1, p. 25.)

8.  $A = \frac{1}{2}bh$

9.  $V = Bh$



**IDENTIFYING LITERAL EQUATIONS** Is the equation a literal equation? Explain.

10.  $y = 4$

11.  $t + 8y = 7$

12.  $z = 4x + 9y$

**REWRITING AN EQUATION** Solve the equation for  $y$ .

13.  $\frac{1}{3}x + y = 4$

14.  $3x + \frac{1}{5}y = 7$

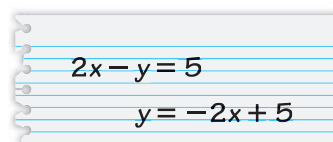
15.  $6 = 4x + 9y$

16.  $\pi = 7x - 2y$

17.  $4.2x - 1.4y = 2.1$

18.  $6y - 1.5x = 8$

19. **MP YOU BE THE TEACHER** Your friend rewrites the equation  $2x - y = 5$ . Is your friend correct? Explain your reasoning.



**REWRITING A FORMULA** Solve the formula for the red variable.

20.  $d = rt$

21.  $e = mc^2$

22.  $R - C = P$

23.  $P = a + b + c$

24.  $B = 3\frac{V}{h}$

25.  $D = \frac{m}{V}$