

1.1**Practice**

For use after Lesson 1.1

Solve the equation. Check your solution.

1. $x + 5 = 16$

2. $11 = w - 12$

3. $\frac{3}{4} + z = \frac{5}{6}$

4. $3y = 18$

5. $\frac{k}{7} = 10$

6. $\frac{4}{5}n = \frac{9}{10}$

7. $x - 12 \div 6 = 9$

8. $h + |-8| = 15$

9. $1.3(2) + p = 7.9$

10. A coupon subtracts \$5.16 from the price p of a shirt. You pay \$15.48 for the shirt after using the coupon. Write and solve an equation to find the original price of the shirt.

1.2**Practice**

For use after Lesson 1.2

Solve the equation. Check your solution.

1. $3x - 11 = 22$

2. $24 - 10b = 9$

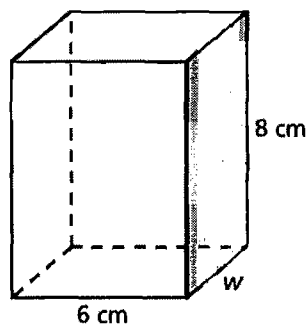
3. $2.4z + 1.2z - 6.5 = 0.7$

4. $\frac{3}{4}w - \frac{1}{2}w - 4 = 12$

5. $2(a + 7) - 7 = 9$

6. $20 + 8(q - 11) = -12$

7. Find the width of the rectangular prism when the surface area is 208 square centimeters.



1.3**Practice**

For use after Lesson 1.3

Solve the equation. Check your solution.

1. $x + 16 = 9x$

2. $4y - 70 = 12y + 2$

3. $5(p + 6) = 8p$

4. $3(g - 7) = 2(10 + g)$

5. $1.8 + 7n = 9.5 - 4n$

6. $\frac{3}{7}w - 11 = -\frac{4}{7}w$

7. One movie club charges a \$100 membership fee and \$10 for each movie. Another club charges no membership fee but movies cost \$15 each. Write and solve an equation to find the number of movies you need to buy for the cost of each movie club to be the same.

1.4**Practice**

For use after Lesson 1.4

Solve the equation for y .

1. $2x + y = -9$

2. $4x - 10y = 12$

3. $13 = \frac{1}{6}y + 2x$

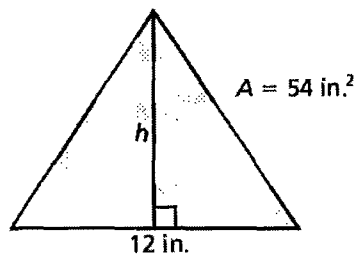
Solve the formula for the bold variable.

4. $V = lwh$

5. $f = \frac{1}{2}(r + 6.5)$

6. $S = 2\pi r^2 + 2\pi rh$

7. The formula for the area of a triangle is $A = \frac{1}{2}bh$.

a. Solve the formula for h .b. Use the new formula to find the value of h .

Practice 1.1

1. $x = 11$

2. $w = 23$

3. $z = \frac{1}{12}$

4. $y = 6$

5. $k = 70$

6. $n = \frac{9}{8}$

7. $x = 11$

8. $h = 7$

9. $p = 5.3$

10. $p - 5.16 = 15.48; p = \$20.64$

Practice 1.2

1. $x = 11$

2. $b = 1.5$

3. $z = 2$

4. $w = 64$

5. $a = 1$

6. $q = 7$

7. $w = 4 \text{ cm}$

Practice 1.3

1. $x = 2$

2. $y = -9$

3. $p = 10$

4. $g = 41$

5. $n = 0.7$

6. $w = 11$

7. $100 + 10x = 15x; x = 20$

Practice 1.4

1. $y = -2x - 9$

2. $y = \frac{2}{5}x - \frac{6}{5}$

3. $y = -12x + 78$

4. $w = \frac{V}{\ell h}$

5. $r = 2f - 6.5$

6. $h = \frac{S - 2\pi r^2}{2\pi r}$

7. a. $h = \frac{2A}{b}$ b. $h = 9$ in.