

## Solving Formulas (Literal Equations)

### Answer Key

1. Solve  $P = 2w + 2L$  for  $w$ .

$$w = \frac{P - 2L}{2}$$

3. Solve  $V = \pi r^2 h$  for  $h$

$$h = \frac{V}{\pi r^2}$$

5. Solve  $PV = nrT$  for  $T$

$$T = \frac{PV}{nr}$$

7. Solve  $L = 2a + (n-1)d$  for  $d$

$$d = \frac{L - 2a}{n - 1}$$

9. Solve  $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$  for  $c$

$$c = \frac{ab}{a + b}$$

2. Solve  $A = \pi r^2$  for  $r$ .

$$r = \sqrt{\frac{A}{\pi}}$$

4. Solve  $ab + ac = bc$  for  $a$ .

$$a = \frac{bc}{b + c}$$

6. Solve  $\frac{P}{Q} = a + b$  for  $Q$

$$Q = \frac{P}{a + b}$$

8. Solve  $abc = a + b + c$  for  $a$

$$a = \frac{b + c}{bc - 1}$$

10. Solve  $y = mx + b$  for  $m$

$$m = \frac{y - b}{x}$$