

## ALGEBRA 1 / UNIT 2 / LESSON 5

### PRACTICE PROBLEMS 5

Solve the following for the given variable.

1)  $I = PRT$ , for  $T$

2)  $c = 2\pi r$ , for  $r$

3)  $d = rt$ , for  $r$

4)  $P = 2(1 + w)$ , for  $l$

5)  $F = \frac{9}{5}c + 32$ , for  $c$

6)  $V = \frac{1}{3}bh$  for  $h$

7)  $A = bh$ , for  $b$

8)  $g = ca$ , for  $a$

9)  $z = m - x$ , for  $x$

10)  $a - c = d - r$ , for  $d$

11)  $A = \frac{a + b}{2}$ , for  $b$

12)  $A = \frac{a + b + c + d}{4}$ , for  $c$

## SOLUTIONS TO PRACTICE PROBLEMS 5

1.  $I = PRT$ , for  $T$

$$\frac{I}{PR} = \frac{PRT}{PR}$$

$$\frac{I}{PR} = T$$

2.

$$c = 2\pi r$$

$$\frac{c}{2} = \frac{2}{2}r$$

$$\frac{c}{2} = r$$

3.  $d = rt$ , for  $r$

$$\frac{d}{t} = \frac{rt}{t}$$

$$\frac{d}{t} = r$$

4.  $P = 2(L + W)$ , for  $L$

$$P = 2L + 2W$$

$$P - 2W = 2L$$

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

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

5.  $F = \frac{9}{5}C + 32$ , for  $C$

$$F - 32 = \frac{9}{5}C$$

$$\frac{5}{9}(F - 32) = C$$

6.  $V = \frac{1}{3}bh$  for  $h$

$$\frac{3V}{b} = \frac{bh}{b}$$

$$\frac{3V}{b} = h$$

7.  $A = bh$ , for  $b$

$$\frac{A}{h} = b$$

8.  $g = ca$ , for  $a$

$$\frac{g}{c} = a$$

9.  $z = m - x$ , for  $x$

$$z + x = m$$

$$x = m - z$$

10.  $a - c = d - r$ , for  $d$

$$a - c + r = d$$