

Solving formulas for a variable

Name _____

Solve each formula for the given variable.

1. $C = 2\pi \bullet r$, for r

$$r = \frac{C}{2\pi}$$

2. $F = ma$, for a

$$a = \frac{F}{m}$$

3. $s = \frac{v}{r}$, for v .

$$v = sr$$

4. $d = \frac{m}{v}$, for v

$$v = \frac{m}{d}$$

5. $I = prt$, for p

$$p = \frac{I}{rt}$$

6. $A = lw$, for l

$$l = \frac{A}{w}$$

7. $s = vt + 16t^2$, for v

$$v = \frac{s - 16t^2}{t}$$

8. $A = \frac{1}{2}h(a+b)$, for h

$$h = \frac{2A}{(a+b)}$$

9. $S = \frac{n}{2}(a+L)$, for n

$$n = \frac{2S}{(a+L)}$$

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

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

11. $A = \frac{1}{2}bh$, for h

$$h = \frac{2A}{b}$$

12. $m = \frac{x+y}{2}$, for y

$$y = 2m - x$$

13. $a = \frac{v-u}{t}$, for v

$$v = at + u$$

14. $3x + 2y = 8$, for y

$$y = -\frac{3}{2}x + 4$$

15. $2x + 5y = 10$, for y

$$y = -\frac{2}{5}x + 2$$

16. $a = \frac{v-u}{t}$, for t

$$t = \frac{v-u}{a}$$

Solving for a Specific Variable - Key

- (1) $y = 9 - 2x$
- (2) $y = 6 - (3/2)x$
- (3) $y = 2 - (2/5)x$
- (4) $y = 5 - (5/3)x$
- (5) $y = 4 - (1/2)x$
- (6) $y = 72 + 18x$
- (7) $y = -120 - 10x$
- (8) $y = -3 + (2/3)x$
- (9) $x = 3 - (3/5)y$
- (10) $x = 12 - (1/10)y$
- (11) $x = -4 - (1/10)y$
- (12) $x = 5 + 2y$