Name: _____ Date: _____

Fresh Math

Literal Equations - Medium

Solve each equation for the variable in parentheses.

1. $C = 2\pi r$ (r)

2. $ax + b = c$ (x)

3. $v = u + at$ (t)

4. $M = \frac{a + b}{2}$ (a)

5. $P = 2l + 2w$ (w)

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

7. $y = 3x - k$ (x)

8. $\frac{x}{a} + b = c$ (x)

9. $y = mx + b$ (b)

10. $A = \frac{a + b + c}{3}$ (c)

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Literal Equations - Medium

Solve each equation for the variable in parentheses.

11. $P = 2l + 2w$ (l)

12. $S = 2\pi rh$ (h)

13. $2x + y = 7$ (x)

14. $y = mx + b$ (x)

15. $ax - b = c$ (x)

16. $v = u + at$ (a)

17. $A = \frac{1}{2}bh$ (b)

18. $y = mx + b$ (m)

19. $A = \frac{1}{2}bh$ (h)

20. $V = \pi r^2 h$ (h)

Literal Equations - Medium - Answer Key

1. $C = 2\pi r$ (r)

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

2. $ax + b = c$ (x)

   $x = \frac{c - b}{a}$

3. $v = u + at$ (t)

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

4. $M = \frac{a + b}{2}$ (a)

   $a = 2M - b$

5. $P = 2l + 2w$ (w)

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

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

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

7. $y = 3x - k$ (x)

   $x = \frac{y + k}{3}$

8. $\frac{x}{a} + b = c$ (x)

   $x = a(c - b)$

9. $y = mx + b$ (b)

   $b = y - mx$

10. $A = \frac{a + b + c}{3}$ (c)

    $c = 3A - a - b$

Literal Equations - Medium - Answer Key

11. $P = 2l + 2w$ (l)

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

12. $S = 2\pi rh$ (h)

$$h = \frac{S}{2\pi r}$$

13. $2x + y = 7$ (x)

$$x = \frac{7 - y}{2}$$

14. $y = mx + b$ (x)

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

15. $ax - b = c$ (x)

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

16. $v = u + at$ (a)

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

17. $A = \frac{1}{2}bh$ (b)

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

18. $y = mx + b$ (m)

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

19. $A = \frac{1}{2}bh$ (h)

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

20. $V = \pi r^2 h$ (h)

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