

Name: _____

[1-4] Literal Equations and Formulas

Solve each equation for the indicated variable.

1. Solve $d = rt$ for r

2. Solve $P = \frac{144p}{y}$ for p

3. Solve $R = \frac{cs}{d}$ for C

4. Solve $P = a + b + c$ for b

5. Solve $T = m - n$ for n

6. Solve $A = \frac{a+b}{2}$ for b

7. Solve $V = lwh$ for w

8. Solve $F = \frac{lt}{d}$ for l

9. Solve $ax + by = c$ for y

10. Solve $A = \frac{a+b+c+d}{4}$ for c

11. Solve $D = \frac{11}{5}(P - 15)$ for P

12. Solve $P = 2(l + w)$ for l

13. Solve $d = \frac{c}{\pi}$ for π

14. Solve $\frac{12ds}{w} = CD$ for w

15. Solve $A = p(1 + rt)$ for t

16. Solve $I = prt$ for r

17. Solve $ax + b = c$ for a

18. Solve $S = 2\pi rh$ for h

19. Solve $A = 2\pi r^2 + 2\pi rh$ for h

20. Solve $F = \frac{gm_1m_2}{d^2}$ for g

21. Solve $R = \frac{l+3w}{2}$ for w

22. Solve $ax + by + c = 0$ for y

23. Solve $C = \frac{5}{9}(F - 32)$ for F

[1-4] WS

Key to Even #'d problems

$$\textcircled{2} \quad p = \frac{Py}{144}$$

$$\textcircled{4} \quad b = P - a - c$$

$$\textcircled{6} \quad b = 2A - a$$

$$\textcircled{8} \quad l = \frac{dF}{t}$$

$$\textcircled{10} \quad c = 4A - a - b - c$$

$$\textcircled{12} \quad l = \frac{P}{2} - W$$

$$\textcircled{14} \quad W = 12 \frac{ds}{cd}$$

$$\textcircled{16} \quad r = \frac{I}{pt}$$

$$\textcircled{18} \quad h = \frac{S}{2\pi r}$$

$$\textcircled{20} \quad g = \frac{Fd^2}{m_1 m_2}$$

$$\textcircled{22} \quad y = \frac{-ax - c}{b}$$