

Name: Key Date: _____**Rearranging Formulas**

1) $m = \frac{y_2 - y_1}{x_2 - x_1}$; solve for y_2

$$y_2 = m(x_2 - x_1) + y_1$$

3) $S = 2(lw + lh + wh)$; solve for w

$$w = \frac{S - 2lh}{2(l+h)}$$

5) $d = \frac{C}{\pi}$; solve for π

$$\pi = \frac{C}{d}$$

7) $S = R - rR$; solve for R

$$R = \frac{S}{1-r}$$

9) $\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$; solve for T_1

$$T_1 = \frac{T_2 P_1 V_1}{P_2 V_2}$$

11) $F = \frac{gm_1 m_2}{d^2}$; Solve for d

$$d = \sqrt{\frac{gm_1 m_2}{F}}$$

13) $R = \frac{l+3w}{2}$; solve for w

$$w = \frac{2R - l}{3}$$

15) $A = S(1 - DN)$; solve for N

$$N = \frac{S - A}{DS}$$

2) $A = \frac{a+b+c+d}{4}$; solve for a

$$4A - b - c - d = a$$

4) $\frac{1}{f} = \frac{1}{a} + \frac{1}{b}$; solve for f

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

6) $A = p(1+rt)$; solve for t

$$t = \frac{A - p}{pr}$$

8) $C = \frac{5}{9}(F - 32)$; solve for F

$$F = \frac{9C + 160}{5}$$

10) $F = \frac{gm_1 m_2}{d^2}$; Solve for g

$$g = \frac{d^2 F}{m_1 m_2}$$

12) $A = 2\pi r^2 + 2\pi rh$; solve for π

$$\pi = \frac{A}{2r^2 + 2rh}$$

14) $5b = 2ac + 4abc$; solve for a

$$a = \frac{5b}{2c + 4bc}$$

16) $S = 2(lw + lh + wh)$; solve for h

$$h = \frac{S - 2lw}{2(l+w)}$$