

Name : _____

Rearranging Equations

Sheet 3

1) $\frac{cd}{ab} = 64$

$b =$ _____

$d =$ _____

2) $\frac{w - 4x^3}{w} = \frac{z + 15x}{4y}$

$w =$ _____

$y =$ _____

3) $\frac{s - t}{\frac{2}{3r}} = r$

$s =$ _____

$t =$ _____

_____ - 6

5) $5g - 9h = 0$

$g =$ _____

$h =$ _____

7(2k - 3n)

7) $\frac{4(p - q)}{7} = -p + 3q$

$p =$ _____

$q =$ _____

8) $s = \frac{7r\sqrt{u}}{r - \sqrt{u}}$

$r =$ _____

$u =$ _____

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Rearranging Equations

1) $\frac{cd}{ab} = 64$

$$b = \frac{cd}{64a}$$

$$d = \frac{64ab}{c}$$

2) $\frac{w - 4x^3}{w} = \frac{z + 15x}{4y}$

$$w = \frac{16x^3y}{4y - 15x - z}$$

$$y = \frac{wz + 15xw}{4w - 16x^3}$$

3) $\frac{s-t}{\frac{2}{3r}} = r$

$$s = \frac{6}{r}$$

$$t = \frac{s}{3}$$

5) $5g - 9h = 0$

$$g = \frac{9h}{5}$$

$$h = \frac{5g}{9}$$

7) $\frac{4(p-q)}{7} = -p + 3q$

$$p = \frac{25q}{11}$$

$$q = \frac{11p}{25}$$

8) $s = \frac{7r\sqrt{u}}{r - \sqrt{u}}$

$$r = \frac{s\sqrt{u}}{s - 7\sqrt{u}}$$

$$u = \left(\frac{rs}{7r + s}\right)^2$$

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$$-6$$

$$x - 25$$

$$v + 25$$

$$7(2k - 3n)$$

$$\frac{mn + 21n}{6n + 14}$$

$$\frac{14k}{t - 6k + 21}$$