DAY 4 - More Rearranging Formulas

Solve for x ax + 3b = 2f ax + 3b = 2f ax + 3b = 2f - 3b x = 2f - 3b

4.
$$\frac{(x+b)}{4} = \frac{c}{1}$$

$$1(x+b) = 4c$$

$$y = 4c - b$$

7. Solve for
$$u$$
.

$$\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$$

$$\frac{1}{u} = f - \frac{1}{\sqrt{1 + \frac{1}{v}}}$$
10. Solve for m .

$$T = 4\sqrt{m}$$

$$T = \sqrt{m}$$

$$A = \frac{1}{2}h(b_1 + b_2)$$

$$2A = h(b_1 + b_2)$$

$$2A = hb_1 + hb_2$$

$$2A - hb_2 = hb_1$$

$$2A - hb_2 = b_1$$

2.
$$\frac{x}{5} - 7 = 2q$$

 $\frac{1}{5} = 2q + 7$
 $1 = 5(2q + 7)$

5.
$$\frac{(3ax+2b)}{c} = \frac{4d}{1}$$

$$1(3ax+2b) = 4cd$$

$$3ax = 4cd - 2b$$

$$2 = \frac{4cd - 2b}{3a}$$

8. Solve for
$$s$$
.
$$A = s^2$$

$$\sqrt{A} = S$$

11. Solve for d.

$$F = G \frac{mn}{d^2}$$

$$d^2 F = G mn$$

$$d^2 = G mn$$

$$d = G mn$$
14. Solve for m.

Solve for
$$m$$
. F
$$K = \frac{1}{2}mv^{2}$$

$$2K = m \cup^{2}$$

$$\frac{JK}{V^{2}} = m$$

$$3.7 \cdot \frac{x}{6} - \frac{x \cdot 6}{7 \cdot 6} ab$$

$$7 \cdot \frac{1}{6} - \frac{x \cdot 6}{7 \cdot 6} ab$$

$$7 \cdot \frac{1}{42} = ab$$

$$2 = 4 ab$$

6.
$$3ax+b=c,$$

$$3ax=c-b$$

$$2=\frac{c-b}{8a}$$

9. Solve for
$$h$$
.
$$V = \pi r^2 h$$

$$\frac{V}{11c^2} = \frac{1}{11c^2}$$

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

$$by = c - aa$$

$$y = c - aa$$

$$b$$

15. Solve for
$$v$$
.
$$K = \frac{1}{2}mv^{2}$$

$$2K = mJ^{2}$$

$$2K = y^{2}$$

$$4m$$

$$2K = y^{2}$$

$$6m$$

The speed of a car after t seconds is given by the formula v = u + at where u is the starting speed and a is the acceleration.



Rearrange this formula to make the subject:

$$au$$
 bt

In an electrical circuit, the formula relating power, P, to the current, I, and resistance, R, is $P = I^2R$.

Rearrange this formula to make the subject a R b I

19.

20.

If a ball is thrown up in the air at a velocity of v, the height it reaches is given by $h = \frac{v^2}{2g}$ where g is the acceleration due to gravity.

Rearrange this formula to make the subject v.

$$2gh = V^2$$

A formula for converting temperatures is $C = \frac{5}{9}(F - 32)$

where ${\cal C}$ is the temperature in degrees Celsius, and ${\cal F}$ is the temperature in degrees Fahrenheit.

Rearrange this formula to make the subject F.

The volume of a sphere of radius r is given by the formula $V = \frac{4}{3} \pi r^3$ Rearrange this formula to make the subject r.



