

Rearrange & Evaluate

1) $2s^2 = \frac{9d^2 - 6c}{4r}$

i) Rearrange the equation to make d the subject. _____

ii) Find the value of d , if $c = \frac{2}{3}$, $r = 1$ and $s = -2$. _____

2) $h + 8 = h(g - 5k)$

i) Rearrange the equation to make g the subject. _____

ii) Find the value of g , if $h = 10$, $k = 2$ and $h = 8$. _____

3) $-m - 25 = 7(n - 4)$

i) Rearrange the equation to make n the subject. _____

ii) Find the value of n , if $m = 10$ and $n = 4$. _____

4) $(x - 2)(6 + y) = 4$

i) Rearrange the equation to make y the subject. _____

ii) Find the value of y , if $x = 2$ and $y = 4$. _____

5) $\sqrt[3]{pq - u} = \sqrt[3]{pt}$

i) Rearrange the equation to make t the subject. _____

ii) Find the value of t , if $p = 4$, $q = -\frac{1}{4}$ and $u = -6$. _____

6) $\frac{8ab}{5} = ab + \frac{3}{5}$

i) Rearrange the equation to make b the subject. _____

ii) Find the value of b , if $a = -9$. _____

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Rearrange & Evaluate

1) $2s^2 = \frac{9d^2 - 6c}{4r}$

i) Rearrange the equation to make d the subject.

$$d = \pm \frac{1}{3} \sqrt{8rs^2 + 6c}$$

ii) Find the value of d , if $c = \frac{2}{3}$, $r = 1$ and $s = -2$.

$$d = \pm 2$$

2) $h + 8 = h(g - 5k)$

i) Rearrange the equation to make g the subject.

$$g = \frac{5kh + h + 8}{h}$$

ii) Find the value of g , if $k = 2$ and $h = 4$.

$$g = 28$$

3) $-m - 25 = 7(n - 4)$

i) Rearrange the equation to make n the subject.

$$n = 7n - 24$$

ii) Find the value of m , if $n = 4$.

$$m = 18$$

4) $(x - 2)(6 + y) = 4y + 12$

i) Rearrange the equation to make x the subject.

$$\frac{2y + 5z + 12}{y + 2}$$

ii) Find the value of x , if $y = 2$.

$$x = 8$$

5) $\sqrt[3]{pq - u} = \sqrt[3]{pt}$

i) Rearrange the equation to make t the subject.

$$= \frac{3pq - u}{p + 2}$$

ii) Find the value of t , if $p = 4$, $q = -\frac{1}{4}$ and $u = -6$.

$$t = \frac{1}{2}$$

6) $\frac{8ab}{5} = ab + \frac{3}{5}$

i) Rearrange the equation to make b the subject.

$$b = \frac{1}{a}$$

ii) Find the value of b , if $a = -9$.

$$b = -\frac{1}{9}$$

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