

## Rearrange & Evaluate

$$1) \quad \frac{1}{\sqrt[3]{n-1}} = \sqrt[3]{\frac{2z+3}{4z}}$$

i) Rearrange the equation to make  $z$  the subject. \_\_\_\_\_

ii) Find the value of  $z$ , if  $n = 2$ . \_\_\_\_\_

$$2) \quad -\frac{a-10b}{p} = -7a + \frac{6q}{p}$$

i) Rearrange the equation to make  $a$  the subject. \_\_\_\_\_

ii) Find the value of  $a$ , if  $b = 2$  and  $q = 3$ . \_\_\_\_\_

$$3) \quad 5x - 3y = -4v + 2w$$

i) Rearrange the equation to make  $x$  the subject. \_\_\_\_\_

ii) Find the value of  $x$ , if  $y = 1$ ,  $v = 2$  and  $w = 3$ . \_\_\_\_\_

$$4) \quad \sqrt{w+km} = u - v$$

i) Rearrange the equation to make  $w$  the subject. \_\_\_\_\_

ii) Find the value of  $w$ , if  $k = 4$ ,  $m = 5$ ,  $u = 6$  and  $v = 7$ . \_\_\_\_\_

$$5) \quad \frac{2}{9} = \frac{g-h}{c}$$

i) Rearrange the equation to make  $c$  the subject. \_\_\_\_\_

ii) Find the value of  $c$ , if  $g = 11$  and  $h = 7$ . \_\_\_\_\_

$$6) \quad \frac{4(2s+1)}{5} = \frac{3t}{4}$$

i) Rearrange the equation to make  $s$  the subject. \_\_\_\_\_

ii) Find the value of  $s$ , if  $t = -\frac{4}{5}$ . \_\_\_\_\_

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## Rearrange &amp; Evaluate

1) 
$$\frac{1}{\sqrt[3]{n-1}} = \sqrt[3]{\frac{2z+3}{4z}}$$

i) Rearrange the equation to make  $z$  the subject.

$$z = \frac{3n-3}{6-2n}$$

ii) Find the value of  $z$ , if  $n = 2$ .

$$z = \frac{3}{2}$$

2) 
$$-\frac{a-10b}{p} = -7a + \frac{6q}{p}$$

i) Rearrange the equation to make  $a$  the subject.

$$a = \frac{6q-10b}{7p-1}$$

ii) Find the value of  $a$ .

$$a = 18$$

3) 
$$5x - 3y = -4v + c$$

i) Rearrange the equation to make  $c$  the subject.

$$c = \frac{3y-4v}{4}$$

ii) Find the value of  $x$ , if  $y = 4$  and  $v = 5$ .

$$x = 5$$

4) 
$$\sqrt{w+km} = u - \sqrt{km}$$

i) Rearrange the equation to make  $w$  the subject.

$$w = (\sqrt{km})^2 - km$$

ii) Find the value of  $w$ , if  $k = 9$  and  $m = 16$ .

$$w = -9$$

5) 
$$\frac{2}{9} = \frac{g-h}{c}$$

i) Rearrange the equation to make  $c$  the subject.

$$c = \frac{9(g-h)}{2}$$

ii) Find the value of  $c$ , if  $g = 11$  and  $h = 7$ .

$$c = 18$$

6) 
$$\frac{4(2s+1)}{5} = \frac{3t}{4}$$

i) Rearrange the equation to make  $s$  the subject.

$$s = \frac{15t-16}{32}$$

ii) Find the value of  $s$ , if  $t = -\frac{4}{5}$ .

$$s = -\frac{7}{8}$$

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