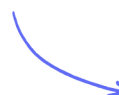


Rearranging Formulas

Rearranging Formulas

Easy (5 questions)	/10
Medium (6 questions)	/12
Hard (6 questions)	/18
Total Marks	/40

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Easy Questions

- 1 Make x the subject of this formula.

$$2y = 5x - 7$$

$$x = \dots\dots\dots$$

(2 marks)

- 2 Make m the subject of the formula $y = 4m - p$

$$m = \dots\dots\dots$$

(2 marks)

- 3 Make r the subject of this formula.

$$p = 3r - 5$$

$$r = \dots\dots\dots$$

(2 marks)

- 4 Make p the subject of this formula.

$$H = 7p - 3$$

$$p = \dots\dots\dots$$

(2 marks)

5 Make x the subject of the following formula

$$T = \frac{1}{3}(x + 2)$$

$x =$

(2 marks)

Medium Questions

- 1 Make q the subject of the formula $6q - 7w = 19 + 5q$

(2 marks)

- 2 Rearrange the formula $5w - 3y + 7 = 0$ to make w the subject.

$w = \dots\dots\dots$

(2 marks)

- 3 Rearrange $T = 5(p + 2)$ to make p the subject.

$p = \dots\dots\dots$

(2 marks)

- 4 Rearrange $2(w + h) = P$ to make w the subject.

$w = \dots\dots\dots$

(2 marks)

- 5 Make r the subject of the formula.

$$T = 3(r + 5)$$

$r = \dots\dots\dots$

(2 marks)

6 Make y the subject of the equation $5x - 2y + 7 = 0$.

$y = \dots\dots\dots$

(2 marks)

Hard Questions

- 1 Make t the subject of the formula $11g + 4t = 2(t + 7)$

(3 marks)

- 2 Rearrange this formula to make x the subject.

$$5x^2 - 3y = 4y + 8$$

$x = \dots\dots\dots$

(3 marks)

- 3 Some students dive off boards of different heights.

The speed, s m/s, that they enter the water from a board of height h metres, can be found using this formula.

$$s = \sqrt{19.6h}$$

- i) Calculate the value of s when $h = 10$.

$s = \dots\dots\dots$ [2]

- ii) Make h the subject of the formula.

$h = \dots\dots\dots$ [2]

(4 marks)

4

$$A = (2\pi + y)x^2$$

Rearrange the formula to make x the subject.

$$x = \dots\dots\dots$$

(2 marks)

5 $m = 2p + \sqrt{\frac{x}{y}}$

Make x the subject of this formula.

$$x = \dots\dots\dots$$

(3 marks)

6 Make y the subject of the formula $h^2 = x^2 + 2y^2$.

$$y = \dots\dots\dots$$

(3 marks)