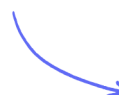


Rearranging Formulas

Formulas where Subject Appears Once / Formulas where Subject Appears Twice

Easy (13 questions)	/25
Medium (12 questions)	/30
Hard (13 questions)	/47
Total Marks	/102

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Easy Questions

- 1 Make h the subject of the formula

$$t = \frac{gh}{10}$$

(2 marks)

- 2 Make t the subject of the formula $w = 3t + 11$

(2 marks)

- 3 Make t the subject of the formula $y = \frac{t}{3} - 2a$

(2 marks)

- 4 Make F the subject of the formula $C = \frac{5(F - 32)}{9}$

(3 marks)

- 5 Make t the subject of the formula $p = at - d$

(2 marks)

6 Make a the subject of $d = g + 2ac$

(2 marks)

7 Make a the subject of the formula $M = ac - bd$

(1 mark)

8 Make e the subject of the formula $h = 3e + f$

(2 marks)

9 Make t the subject of $c = t^3 - 8v$

(2 marks)

10 Rearrange $y = 3x - 2$ to make x the subject.

A. $x = \frac{y}{3} - 2$

B. $x = \frac{y+2}{3}$

C. $x = \frac{y-2}{3}$

D. $x = \frac{y}{3} + 2$

(1 mark)

11 Rearrange $v = u + at$ to make t the subject of the formula.

(2 marks)

12 Rearrange this formula to make y the subject.

$$x = y^2 + 7$$

(2 marks)

13 Rearrange the equation to make x the subject.

$$y = 7x - 3$$

$x = \dots\dots\dots$

(2 marks)

Medium Questions

1 Make y the subject of the formula $p = \sqrt{\frac{x+y}{5}}$

(3 marks)

2 Make t the subject of the formula $2(d-t) = 4t + 7$

(3 marks)

3 Make m the subject of the formula $v = \sqrt{\frac{2E}{m}}$

(3 marks)

4 Make p the subject of the formula $y = 3p^2 - 4$

(3 marks)

5 $m = \sqrt{\frac{k+1}{4}}$

Make k the subject of the formula.

(3 marks)

6 Make m the subject of $g - 3m = am + 5$

(3 marks)

7 Make c the subject of $A = \frac{c}{y} - 5z$

(2 marks)

8 Make f the subject of $m = \sqrt{\frac{1}{3}ef}$

(2 marks)

9 Make t the subject of $s = \frac{1}{2}at^2$

(2 marks)

10 Rearrange $y = \sqrt{w^3}$ to make w the subject.

A. $w = y^6$

B. $w = \sqrt[3]{y^2}$

C. $w = \sqrt{y^3}$

D. $w = y^5$

(1 mark)

11 Rearrange $a = \frac{b}{c} + 5$ to make c the subject.

(3 marks)

12 Use the formula $s = ut + \frac{1}{2}at^2$.

Make a the subject of the formula.

$a = \dots\dots\dots$

(2 marks)

Hard Questions

- 1 Make y the subject of the formula

$$t = \frac{2 - 3y}{y + 2}$$

(4 marks)

- 2 Make v the subject of the formula $w = \frac{15(t - 2v)}{v}$

(3 marks)

- 3 Make a the subject of $a + 3 = \frac{2a + 7}{r}$

(3 marks)

4 $m = \sqrt{\frac{k^3 + 1}{4}}$

Make k the subject of the formula.

(3 marks)

5 Make a the subject of the formula $p = \frac{3a+5}{4-a}$

(4 marks)

6 Make t the subject of the formula

$$p = \frac{3-2t}{4+t}$$

(4 marks)

7 Make m the subject of

$$\frac{m}{v} - \frac{t}{b} = \frac{m-t}{R}$$

(4 marks)

8 Make m the subject of the formula $f = \frac{3m+4}{m-1}$

(3 marks)

9 Make t the subject of $n^2 = \frac{4d+t^3}{t^3}$

(4 marks)

10 Make c the subject of the formula $p = \sqrt{\frac{ac+8}{3+c}}$

(4 marks)

11 Make x the subject of $y = \sqrt{\frac{x+1}{x-4}}$

(4 marks)

12 Given that $n > 0$

make n the subject of the formula $y = \frac{n^2 + d}{n^2}$

(4 marks)

13 Rearrange $y = \frac{1}{\sqrt{x+1}}$ to make x the subject.

(3 marks)