

# Rearranging Formulae

## Question Paper 2

Level	IGCSE
Subject	Mathematics
Topic	Equations, Formulae & Identities
Sub-Topic	Rearranging Formulae
Booklet	Question Paper 2

**Time Allowed:** 28 minutes

**Score:** /23

**Percentage:** /100

### Grade Boundaries:

9	8	7	6	5	4	3	U
>84%	71%	58%	45%	33%	21%	<15%	0%

- 1 Make  $y$  the subject of the formula

$$t = \frac{2 - 3y}{y + 2} \quad (4)$$

.....  
**(Total 4 marks)**

- 2 Make  $y$  the subject of the formula  $p = \sqrt{\frac{x + y}{5}} \quad (3)$

.....  
**(Total 3 marks)**

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

.....

**(Total 3 marks)**

4 (b) Make  $v$  the subject of the formula  $w = \frac{15(t - 2v)}{v}$  (3)

.....

**(Total 3 marks)**

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

.....  
(Total 3 marks)

6  $m = \sqrt{\frac{k^3 + 1}{4}}$   
Make  $k$  the subject of the formula. (3)

.....  
(Total 3 marks)

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

.....  
(Total 2 marks)

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

.....  
(Total 2 marks)