

Rearranging Formulae

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **29**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 Make p the subject of the formula $w = 7p + 3$

$p = \dots\dots\dots$
(2)

(Total for Question 1 is 2 marks)

2 Make q the subject of the formula $p = 6q - 7$

$q = \dots\dots\dots$
(2)

(Total for Question 2 is 2 marks)

- 3** (a) Make n the subject of the formula $m = n + 8$

$$n = \dots\dots\dots$$

(1)

- (b) Make x the subject of the formula $y = 7x$

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

(1)

- (c) Make b the subject of the formula $a = \frac{b}{4}$

$$b = \dots\dots\dots$$

(1)

(Total for Question 3 is 3 marks)

- 4** Make x the subject of the formula $y = \frac{x+6}{5}$

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

(2)

(Total for Question 4 is 2 marks)

- 5 Make h the subject of the formula $A = \frac{bh}{2}$

$$h = \dots\dots\dots (2)$$

(Total for Question 5 is 2 marks)

- 6 Zara is trying to make g the subject of $h = 4g - 9$
Here is her working.

$$h - 9 = 4g$$

$$g = \frac{h - 9}{4}$$

Zara's answer is wrong.

- (a) What mistake has Zara made?

.....
..... (1)

- (b) Make g the subject of $h = 4g - 9$ correctly.

$$g = \dots\dots\dots (1)$$

(Total for Question 6 is 2 marks)

- 7 Make d the subject of the formula $k = m^2 + 5cd$

$$d = \dots\dots\dots (2)$$

(Total for Question 7 is 2 marks)

- 8 Make x the subject of the formula $y = 5 - 2x$

$$x = \dots\dots\dots (2)$$

(Total for Question 8 is 2 marks)

- 9 Make r the subject of the formula $C = 2\pi r$

$$r = \dots\dots\dots (1)$$

(Total for Question 9 is 1 mark)

10 a is positive.

Make a the subject of the formula $y = 3a^2$

$$a = \dots\dots\dots (2)$$

(Total for Question 10 is 2 marks)

11 (a) Make C the subject of the formula $F = 1.8C + 32$

$$C = \dots\dots\dots (2)$$

(b) Work out the value of C when $F = 86$

$$C = \dots\dots\dots (1)$$

(Total for Question 11 is 3 marks)

12 Make x the subject of the formula $w = k + mx$

$$x = \dots\dots\dots (2)$$

(Total for Question 12 is 2 marks)

13 Make b the subject of the formula $P = 2(a + b)$

$$b = \dots\dots\dots (2)$$

(Total for Question 13 is 2 marks)

14 Make r the subject of the formula $q = 4p + \frac{r}{2}$

$$r = \dots\dots\dots (2)$$

(Total for Question 14 is 2 marks)
