

Changing the Subject of a Formula

Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Changing the Subject of a Formula
Grade Level	Grade 5
Booklet	Question Paper

Time Allowed: 37 minutes

Score: /31

Percentage: /100

Grade Boundaries:

1. Make p the subject of the formula $m = 3n + 2p$

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

2. Make c the subject of the formula $a = 3c - 4$

$c = \dots\dots\dots$
(Total 2 marks)

3. Make b the subject of the formula $P = 2a + 2b$

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

4. Make c the subject of the formula $f = 3c - 4$

$$c = \dots\dots\dots$$

(Total 2 marks)

5. Make t the subject of the formula

$$u = 7t + 30$$

$$t = \dots\dots\dots$$

(Total 2 marks)

6. Make t the subject of the formula $v = u + 5t$

$t = \dots\dots\dots$

(Total 2 marks)

7. Make y the subject of the formula

$$x = 3y + 2$$

$\dots\dots\dots$

(Total 2 marks)

8. Rearrange $y = \frac{1}{2}x + 1$ to make x the subject.

.....
(Total 2 marks)

9. Make a the subject of the formula $s = \frac{a}{4} + 8u$

$a =$
(Total 2 marks)

10. Make u the subject of the formula

$$D = ut + kt^2$$

$$u = \dots\dots\dots$$

(Total 2 marks)

11. Make s the subject of the formula

$$v^2 = u^2 + 2as$$

$$s = \dots\dots\dots$$

(Total 2 marks)

12. Make t the subject of the formula

$$2(t - 5) = y$$

$$t = \dots\dots\dots$$

(Total 3 marks)

13. Make n the subject of the formula

$$m = 5n - 21$$

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

(Total 2 marks)

14. Make q the subject of the formula $P = 2q + 10$

$$q = \dots\dots\dots$$

(Total 2 marks)

15. When you are h feet above sea level, you can see d miles to the horizon, where

$$d = \sqrt{\frac{3h}{2}}$$

Make h the subject of the formula

$$d = \sqrt{\frac{3h}{2}}$$

$$h = \dots\dots\dots$$

(Total 2 marks)