



1. Rearrange $a(q - c) = d$ to make q the subject.

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

(3)

(Total 5 marks)

2. (a) Make n the subject of the formula $m = 5n - 21$

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

(2)

(b) Make p the subject of the formula $4(p - 2q) = 3p + 2$

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

(3)

(Total 5 marks)

3.

$$P = \pi r + 2r + 2a$$

Make r the subject of the formula

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

(Total 3 marks)

4. Make a the subject of the formula

$$2(3a - c) = 5c + 1$$

.....
(Total 3 marks)

5. Make m the subject of the formula $2(2p + m) = 3 - 5m$

$m =$
(Total 3 marks)

6. Make x the subject of

$$5(x - 3) = y(4 - 3x)$$

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

(Total 4 marks)

7. 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

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

(Total 4 marks)

8. $y = \frac{2pt}{p-t}$

Rearrange the formula to make t the subject.

$t = \dots\dots\dots$

(Total 4 marks)

9. Make b the subject of the formula $a = \frac{2-7b}{b-5}$

$\dots\dots\dots$

(Total 4 marks)

10.
$$P = \frac{n^2 + a}{n + a}$$

Rearrange the formula to make a the subject.

$a = \dots\dots\dots$
(Total 4 marks)

11.
$$\frac{x}{x + c} = \frac{p}{q}$$

Make x the subject of the formula.

$x = \dots\dots\dots$
(Total 4 marks)

12. Rearrange $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$

to make u the subject of the formula.

Give your answer in its simplest form.

.....
(Total 5 marks)