Change the subject

Question 1

Make f the subject of

$$m = \sqrt{\frac{1}{3}ef}$$

$f =$ .....

(2 marks)

Question 2

Rearrange

$$a(q - c) = d$$

to make q the subject.

$q =$ **.....**

Question 3

Make q the subject of the formula $5(q + p) = 4 + 8p$

Give your answer in its simplest form.

$q =$ **.....**

(3 marks)

Question 4

Make s the subject of $v^2 = u^2 + 2as$

$s =$ **.....**

(2 marks)

Question 5

Make b the subject of

$$P = \frac{1}{2}ab^2$$

$b = \pm$ **.....**

(2 marks)

Question 6

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

$a =$ **.....**

(2 marks)

Question 7

Rearrange the formula $y = a^2 - bx^2$ to make x the subject.

$x = \pm$ **.....**

(3 marks)

Question 8

Rearrange the formula $I = kT^4$ to make T the subject.

$T =$ .....

(2 marks)

Question 9

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.

$h =$ .....

Question 10

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.

$u =$ .....

(2 marks)

Question 11

Make y the subject of the formula

$$V = \frac{2}{3}hy^2$$

$y = \pm$ **.....**

(2 marks)

Question 12

Make t the subject of

$$p = \sqrt{a + \frac{t}{2}}$$

$t =$ **.....**

(3 marks)
