

8300

GCSE MATHEMATICS

Foundation and Higher tier – Questions by Topic

Algebra

Changing the subjects of formulae with one step

v1.0

Name _____

Materials

For this paper you must have:

- Mathematical instruments

Information

- The marks for questions are shown in brackets

Advice

- In all calculations, show clearly how you work out your answer

For question 1 you must **NOT** use a calculator.



Q1.

(a) $a + b = 0$

Which of these is equal to b ?

Circle your answer.

0

$\frac{1}{a}$

a

$-a$

(1)

(b) $c \times d = 1$

Which of these is equal to d ?

Circle your answer.

1

$\frac{1}{c}$

c

$-c$

(1)

(Total 2 marks)

For the rest of the questions, you may use a calculator.



Q2.

Rearrange $y = w - 1$ to make w the subject.

(Total 1 mark)

Q3.

Rearrange $d = h - 4$ to make h the subject.

(Total 1 mark)

Q4.

Rearrange $p = \frac{w}{3}$ to make w the subject.

(Total 1 mark)

Q5.

Rearrange $m = n + k$ to make n the subject.

(Total 1 mark)

Q6.

Rearrange $m = p - 5$ to make p the subject.

Write down your answer from this list:

$p = \frac{m}{5}$

$p = m + 5$

$p = 5m$

$p = m - 5$

(Total 1 mark)

Q7.

Rearrange $e = 2f$ to make f the subject.

Write down your answer from this list:

$$f = 2e$$

$$f = \frac{2}{e}$$

$$f = e - 2$$

$$f = \frac{e}{2}$$

(Total 1 mark)

Q8.

Rearrange $m = p + 2$ to make p the subject.

(Total 1 mark)

Question 9 is **higher** tier only

Q9.

$$a \times b^4 = c$$

Circle the correct expression for a .

$$\frac{c}{\sqrt[4]{b}}$$

$$\frac{c}{b^{-4}}$$

$$\left(\frac{c}{b}\right)^4$$

$$\frac{c}{b^4}$$

(Total 1 mark)