

1 Given that $a \times 60 = b$ work out the value of $\frac{4b}{a}$

[2 marks]

Answer _____

2 Choose **one** of the following to make a correct statement each time.

[4 marks]

is less than

is equal to

is greater than

When $a = 3$ $4a$ _____ $a + 7$

When $b = 8$ $2b - 6$ _____ $18 - b$

When $c = 0.5$ $3c$ _____ $c + 1$

When $d = -1$ d _____ d^2

3 Work out the value of $a^2 - 4a$ when $a = 10$

[2 marks]

Answer _____

4 (a) Here are two expressions.

$$8a$$

$$a^2 - b$$

When $a = 25$ the expressions have the same value.

Work out the value of b .

[3 marks]

$$b = \underline{\hspace{10em}}$$

5

$$T = 5P - W$$

5 (a) Work out the value of T when $P = 4$ and $W = 2$ **[2 marks]**

$$T = \underline{\hspace{10em}}$$

5 (b) Work out the value of P when $T = -40$ and $W = 10$ **[3 marks]**

$$P = \underline{\hspace{10em}}$$

6 Work out the value of $3r + 4t$ when $r = 13$ and $t = -2$

[2 marks]

Answer _____

7 $m = pr$

p is halved and r is multiplied by 3

What happens to m ?

Circle your answer.

[1 mark]

$\times 6$

$\times \frac{1}{6}$

$\times \frac{3}{2}$

$\times \frac{2}{3}$

- 8 A window cleaner uses this formula.

$$C = 2W + 5$$

C = cost, in £, for the customer

W = number of windows to be cleaned

- 8 (a) How much does it cost for 6 windows to be cleaned?

[2 marks]

Answer £ _____

- 8 (b) The cost for another customer was £24

Show why this cost **must** be incorrect.

[1 mark]
