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

[2 marks]

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

[4 marks]

is less than is equal to is greater than is greater than When a = 310 is equal to 10 = 18 - b When b = 82b-6 = 10is equal to When c = 0.53c = 1.5 1-5 c + 1is less than When d = -1

[2 marks]

Work out the value of  $a^2 - 4a$  when a = 103

(10)2-4(10)

- 100 - 40

: 60

Answer 60

4 (a) Here are two expressions.

$$a^2 - b$$

When a = 25 the expressions have the same value.

Work out the value of b.

[3 marks]

5

$$T = 5P - W$$

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

T = 5(4) - 2

[2 marks]

= 18 (1)

$$T =$$

**5 (b)** Work out the value of P when T = -40 and W = 10

[3 marks]

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

[2 marks]

Answer 31

7 
$$m = pr$$

p is halved and r is multiplied by 3  $\frac{1}{2}$  p (3r) =  $\frac{3}{2}$  pr

What happens to m?

Circle your answer.

[1 mark]

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

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



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

8 A window cleaner uses this formula.

$$C = 2W + 5$$

 $C = \cos t$ , in £, for the customer

W = number of windows to be cleaned

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

[2 marks]

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

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

[1 mark]

This must be incorrect as W should be a whole number.