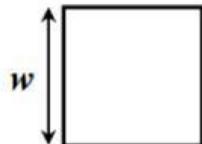


# Algebra

## Formulae

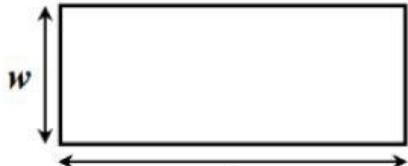
6a. Work out the perimeter ( $p$ ) of this shape using the formula  $p = 4w$ , if  $w = 2.3\text{cm}$ .



Not to scale



6b. Work out the perimeter ( $p$ ) of this shape using the formula  $p = 2(w + l)$ , if  $w = 1.5\text{cm}$  and  $l = 5.2\text{cm}$ .



Not to scale



VF

7a. Circle the correct formula for finding a squared number.

$$a = 2b$$

$$a = b \times b$$

$$a = \frac{b}{2}$$



7b. Circle the correct formula for finding  $\frac{1}{4}$  of a number.

$$a = n \div 25$$

$$a = 0.25n$$

$$a = \frac{n}{25}$$



VF

2a. Here is a formula for the amount of flour ( $f$ ) needed to bake brownies.

$$f = c \times 2$$

Hamish has 2 bars of chocolate ( $c$ ) and 3 bags of flour.

Does Hamish have enough flour?  
Convince me.



2b. Here is a formula for the number of tulips ( $t$ ) planted for every rose ( $r$ ).

$$r = 3t$$

Maud plants 2 roses; she has planted 5 tulips.

Has she planted enough tulips?  
Convince me.



R

4. The price for a design to be printed on a hooded jacket varies, depending on the number of colours used.

The formula below is used to calculate the cost of the printing service:

**Price = 85p x number of colours + £1.75**



What is the price for printing a design that includes 6 colours?



VF  
HW/Ext