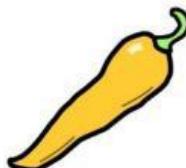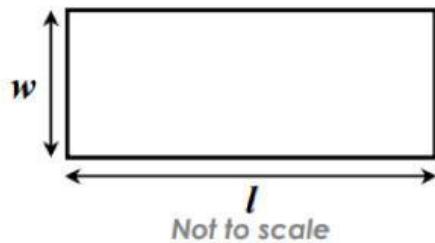# Algebra
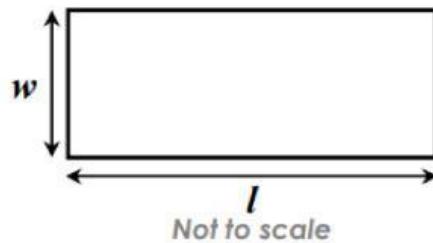
Formulae

2a. Work out the area (a) of this shape using the formula $a = w \times l$, if $w = 5$cm and $l = 8$cm.

w

l

Not to scale

2b. Work out the perimeter (p) of this shape using the formula $p = 2w + 2l$, if $w = 4$cm and $l = 9$cm.

w

l

Not to scale

3a. Circle the correct formula for doubling a number.

$$d = 2n$$

$$d = n \times n$$

$$d = \frac{n}{2}$$

3b. Circle the correct formula for halving a number.

$$h = n \div n$$

$$h = 2n$$

$$h = n \div 2$$

4a. The number of adults (a) needed to oversee an Early Years trip is calculated as six children (c) to each adult.

Expressed as the formula:

$$a = 6c$$

If there are 5 adults, how many children can go on the trip?

4b. The number of clean towels (t) needed by a hotel is calculated as 3 per guest (g).

Expressed as the formula:

$$g = 3t$$

If there are 20 guests, how many clean towels will be needed?