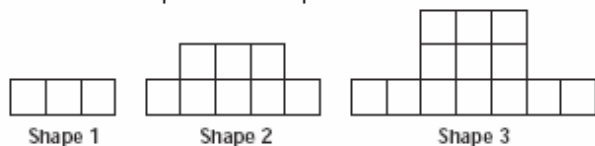


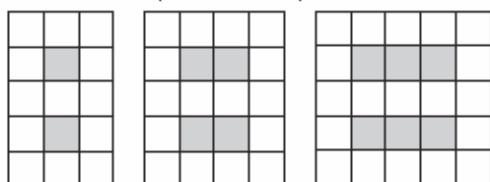
Home Learning 1.2 Date Due:.....

1 Look at the sequence of shapes below.



- a Draw the next two shapes in the sequence, shape 4 and shape 5.
- b Write down the number of squares in each shape.
- c Without drawing the shape, find how many squares there will be in shape 10.

2 Look at the sequence of shapes below.



- a Draw the next two shapes in the series, shape 4 and shape 5.
- b Write down the number of grey squares in each shape.
- c Write down the number of white squares in each shape.
- d Without drawing the shapes, find out each of the following.
 - (i) How many grey squares are in shape 10.
 - (ii) How many white squares are in shape 20.
 - (iii) How many squares, in total, are in shape 30.

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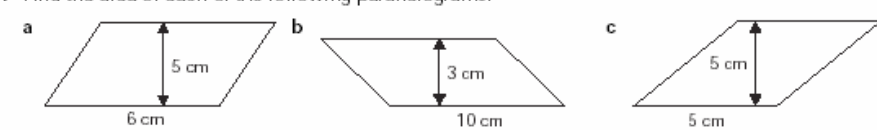
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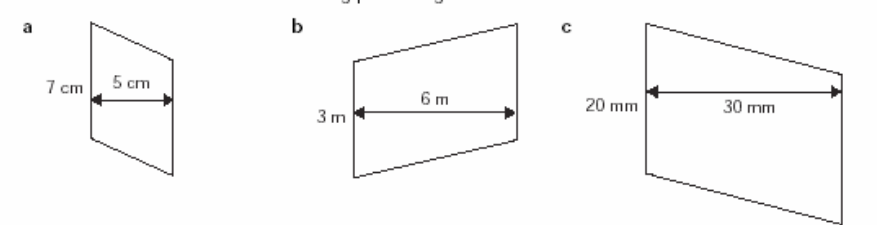
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Home Learning 6.2 Date Due:.....

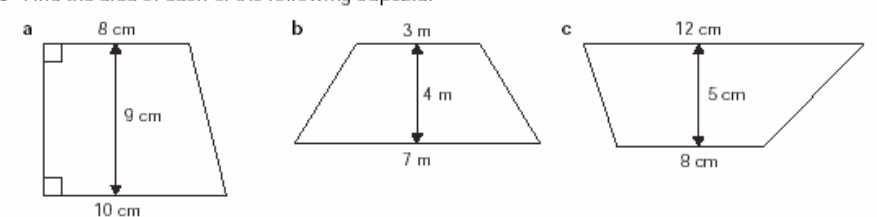
1 Find the area of each of the following parallelograms.



2 Find the area of each of the following parallelograms.



3 Find the area of each of the following trapezia.



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Home Learning 1.3 Date Due:.....

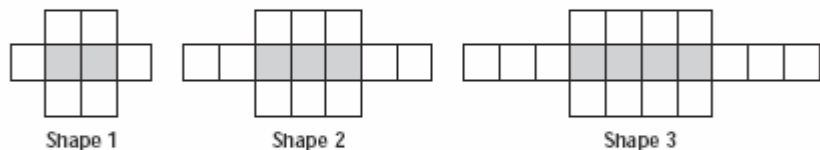
1 The n th term of a sequence is given by $n \rightarrow 9n + 2$.

- a Find the first five terms of the sequence.
- b Find the 10th term of the sequence.
- c Find the 50th term of the sequence.

2 The n th term of a sequence is given by $n \rightarrow 5n - 3$.

- a Find the first five terms of the sequence.
- b Find the 20th term of the sequence.
- c Find the 100th term of the sequence.

3 Look at the pattern below.



Geoff worked out the following:

The number of grey squares in the n th shape is $n + 1$.

The number of white squares in the n th shape is $4n + 2$.

The total number of squares in the n th shape is $5n + 3$.

- a Show that Geoff was correct for the three shapes shown.
- b How many grey squares will there be in shape 15?
- c How many white squares will there be in shape 20?
- d How many squares altogether will there be in shape 30?

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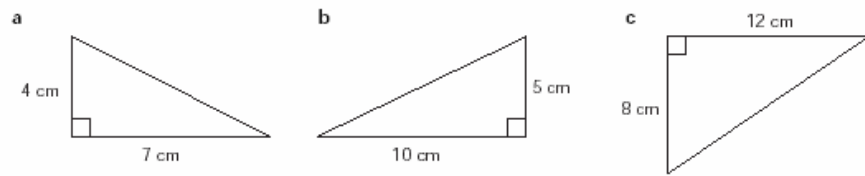
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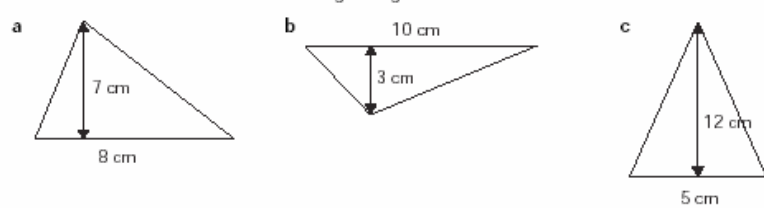
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Home Learning 6.1 Date Due:.....

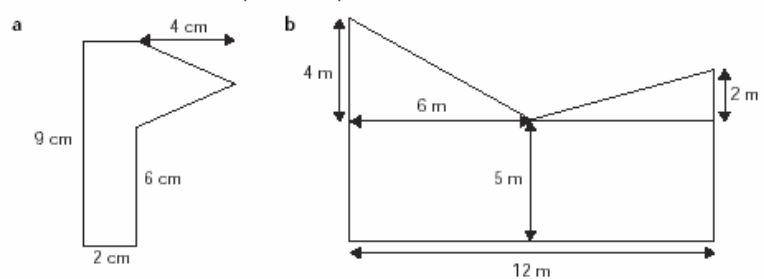
1 Find the area of each of the following right-angled triangles.



2 Find the area of each of the following triangles.



3 Find the area of each compound shape below.



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