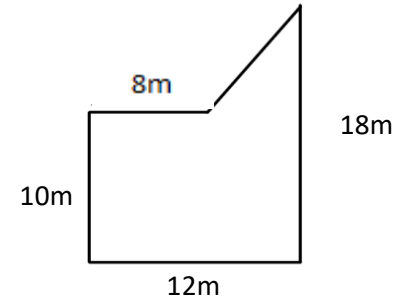
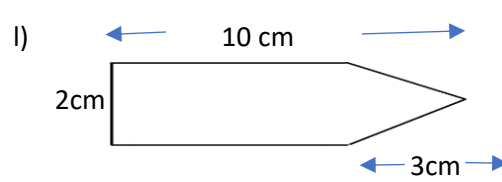
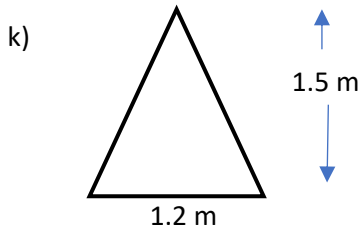
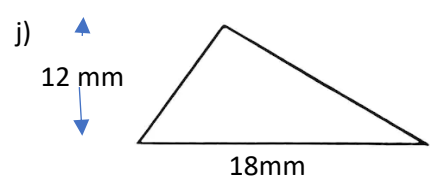
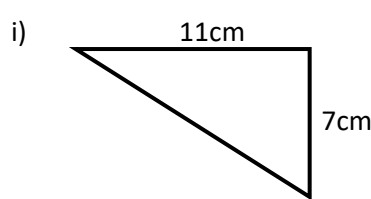
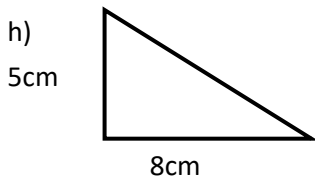
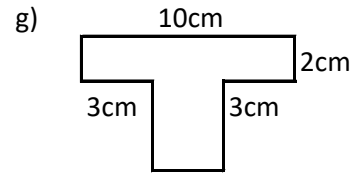
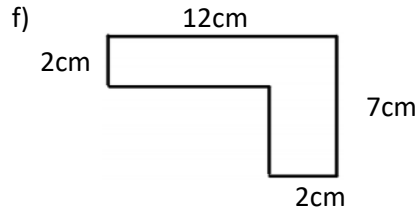
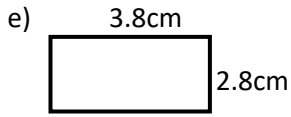
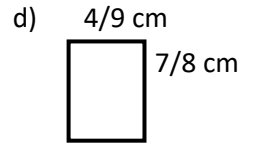
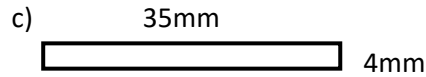
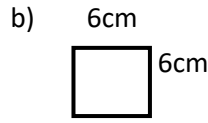
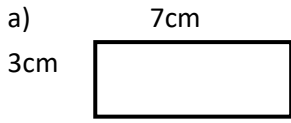


KS3 Higher week 10 homework

1 Can you remember all your quadrilaterals? Make a list of them and draw a quick rough sketch of each one you will find it useful in the future!

2 Find the areas of the following shapes

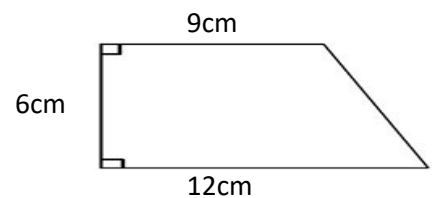
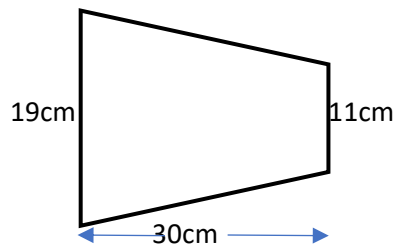
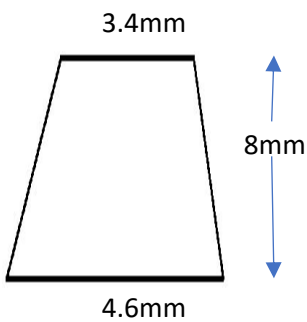
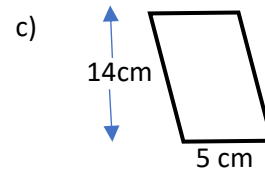
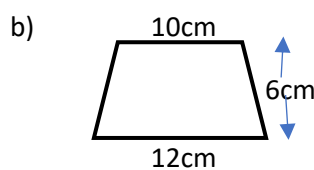
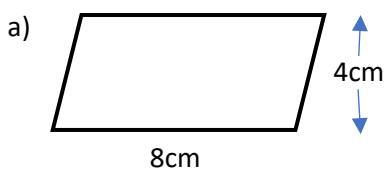


3 Work out the perimeter of the shapes in a, b, c, d, e, f & g above

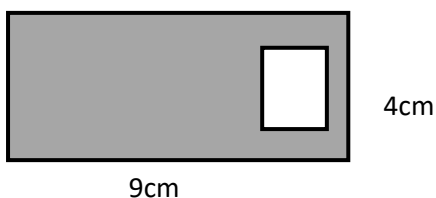
4 What is the formula for area of a parallelogram?

What is the formula for area of a trapezium?

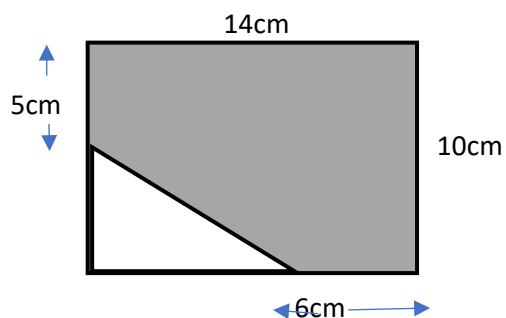
5 Use the appropriate formula to work out the areas of these parallelograms & trapeziums



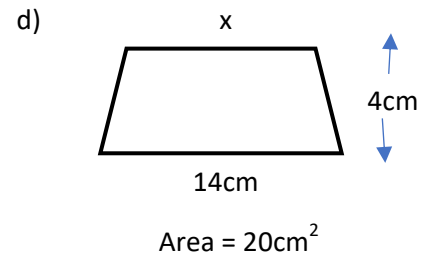
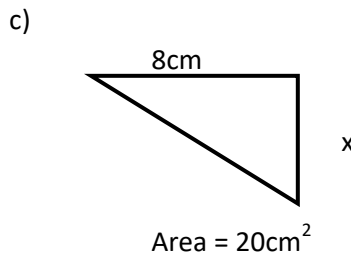
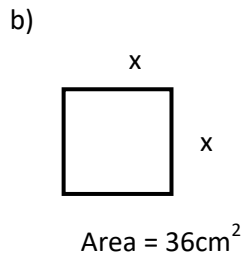
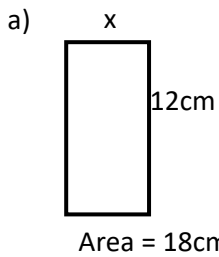
6 Work out the shaded area



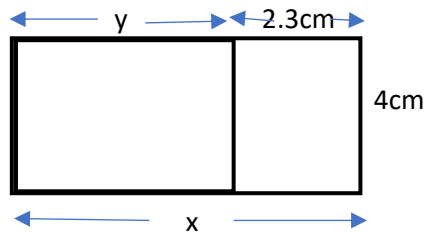
Inner rectangle has the dimensions 3cm by 1.2cm



7 Work out the missing side lengths on these shapes

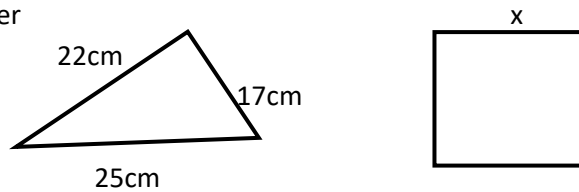


8 The area of the complete rectangle is 36cm^2
Work out the missing value for x
And the missing value for y



The rectangle is three times as long as it is wide,
If the perimeter of the rectangle is 40cm
work out the side lengths
and work out the area of the rectangle.

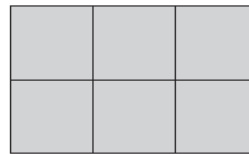
10 The triangle and the square have the same perimeter
work out the side lengths of the square



11 The square has a perimeter of 20cm

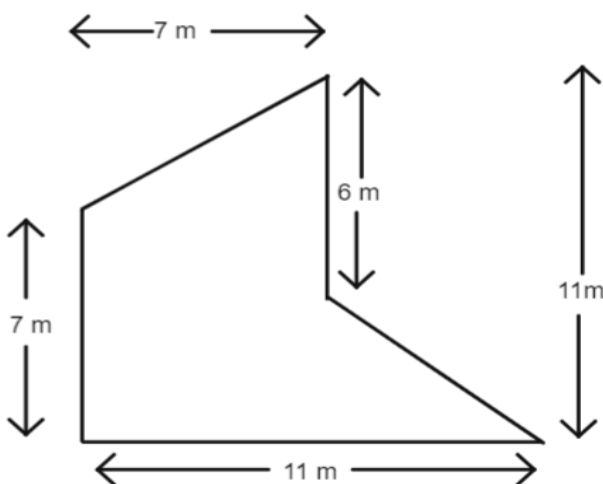


Six of these squares fit together to make a rectangle



What is the area of the rectangle?

12 Jenna has a garden with the dimensions as shown in the diagram



a) work out the total area of Jenna's garden

Jenna is going to grassseed the garden,
grass seed comes in boxes that cost $\text{£}4.50$ a box
each box covers 20m^2 of lawn

b) how many boxes will Jenna need?
and what will be the total cost?