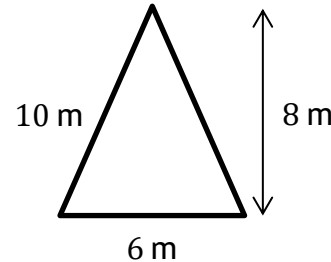
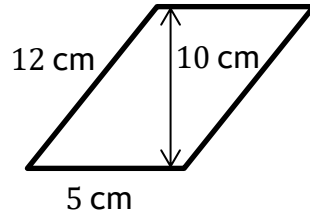
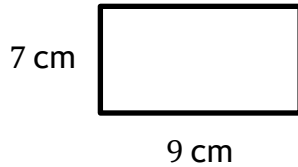


# Building Blocks -Area of Composite Shapes

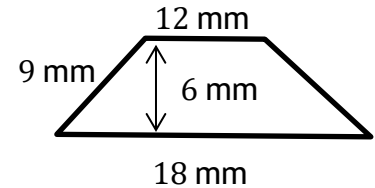


Block 1

Find the area of the given shapes.

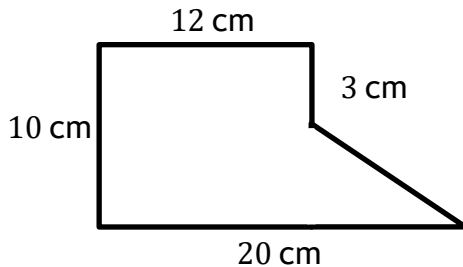


Diagrams not drawn accurately.

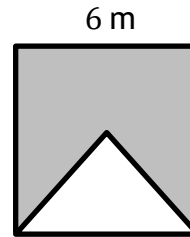


Block 2

Work out the area of the shape.



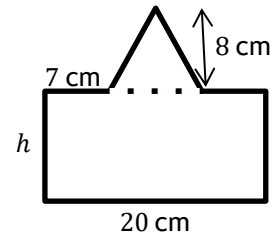
A triangle is shown within a square. The height of the triangle is half the height of the square. Find the area of the shaded region.



This shape is made of a triangle and a rectangle.

The shape has exactly one line of symmetry.

The area of the rectangle is 5 times the area of the triangle. Find the length of side  $h$ .

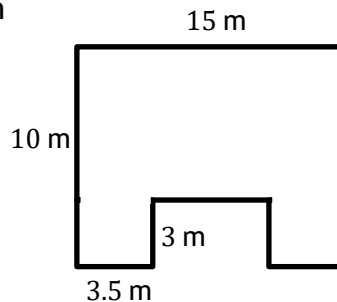


Block 3

The diagram shows the plan of a floor, which has two identical alcoves. Julie is going to varnish the floor.

She needs 1 litre of varnish for  $8 \text{ m}^2$  of floor. There are 5 litres of varnish in each tin. Julie has 3 tins of varnish.

Does she have enough varnish for all the floor?

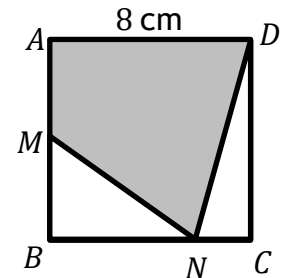


$ABCD$  is a square of side 8 cm.

$M$  is the midpoint of  $AB$ .  
 $N$  is a point on  $BC$ .

$$CN = \frac{1}{4}CB$$

Calculate the area of the shaded region  $AMND$ .

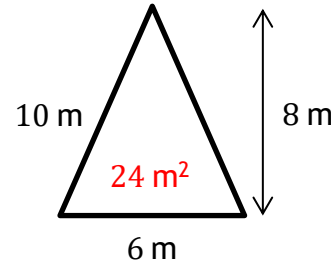
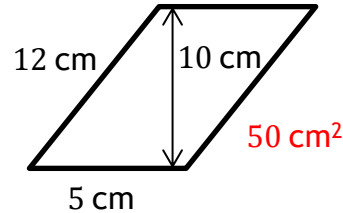
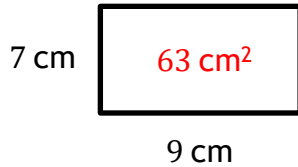


# Building Blocks -Area of Composite Shapes

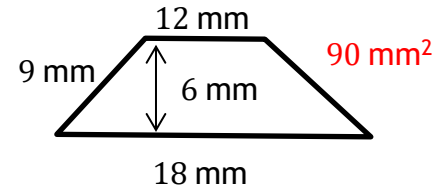


Block 1

Find the area of the given shapes.

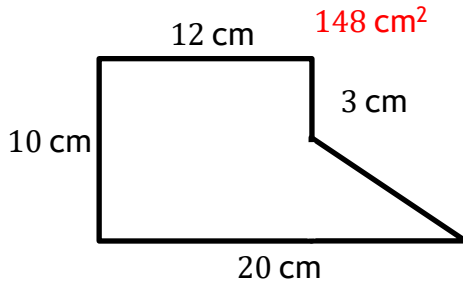


Diagrams not drawn accurately.

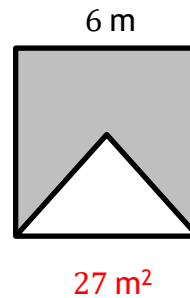


Block 2

Work out the area of the shape.



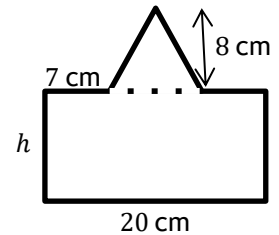
A triangle is shown within a square. The height of the triangle is half the height of the square. Find the area of the shaded region.



This shape is made of a triangle and a rectangle.

The shape has exactly one line of symmetry.

The area of the rectangle is 5 times the area of the triangle. Find the length of side  $h$ .



$$h = 6 \text{ cm}$$

Block 3

The diagram shows the plan of a floor, which has two identical alcoves. Julie is going to varnish the floor.

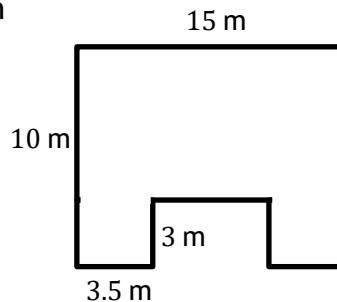
She needs 1 litre of varnish for  $8 \text{ m}^2$  of floor. There are 5 litres of varnish in each tin. Julie has 3 tins of varnish.

Does she have enough varnish for all the floor?

$$\text{Varnish available: } 5 \times 3 \times 8 = 120 \text{ m}^2$$

$$\text{Area to cover: } 15 \times 10 - 3 \times 8 = 126 \text{ m}^2$$

No,  $6 \text{ m}^2$  left without varnish.



$ABCD$  is a square of side 8 cm.

$M$  is the midpoint of  $AB$ .  
 $N$  is a point on  $BC$ .

$$CN = \frac{1}{4}CB$$

Calculate the area of the shaded region  $AMND$ .

$$64 - 12 - 8 = 44 \text{ cm}^2$$

