1. **[April 2018 qp1 #25]**
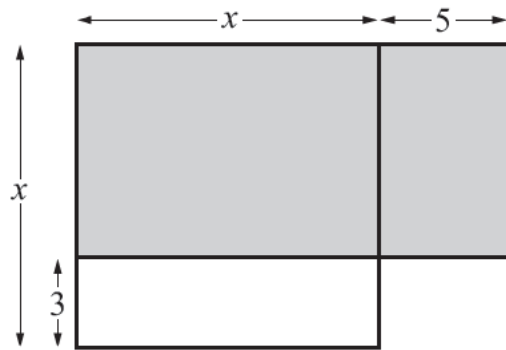
   The diagram shows a shape with all side lengths measured in centimetres.
   All the angles are right angles
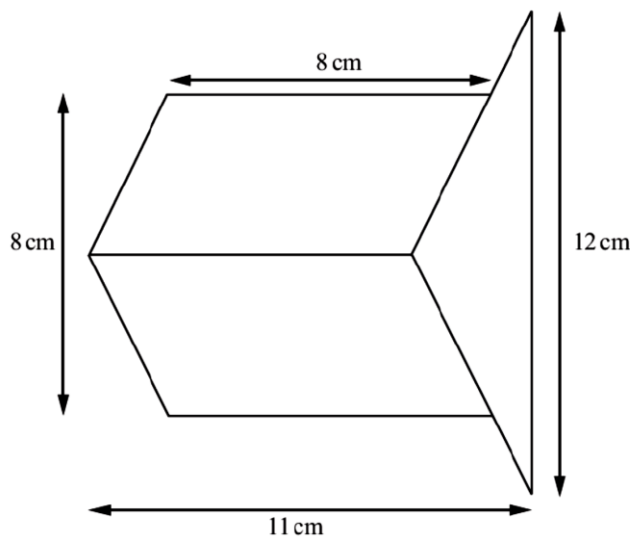

NOT TO SCALE

   Write an expression, in terms of x, for the total shaded area

……………………. cm ^{2}

2. **[April 2018 qp2 #29]**

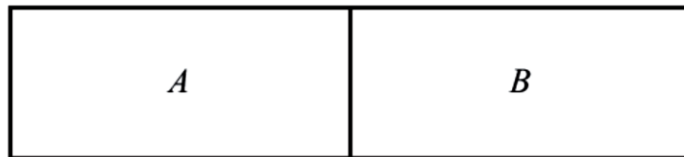   The diagram shows a shape made from two identical parallelograms and a triangle

NOT TO SCALE

   Calculate the total surface area of the shape

……………………. cm ^{2}

British Maths

3. **[April 2017 qp2 #4]**

Rectangles *A* and *B* are identical.
Each has a perimeter of 40 cm.
They are put together to make a new rectangle.

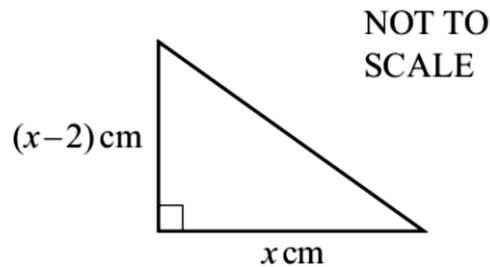| *A* | *B* |

NOT TO
SCALE

The perimeter of the new rectangle is 68 cm.
Work out the length and width of rectangle *A*.

Length = ……………………. cm

Width   = ……………………. cm ^{2}

4. **[April 2017 qp2 #18]**
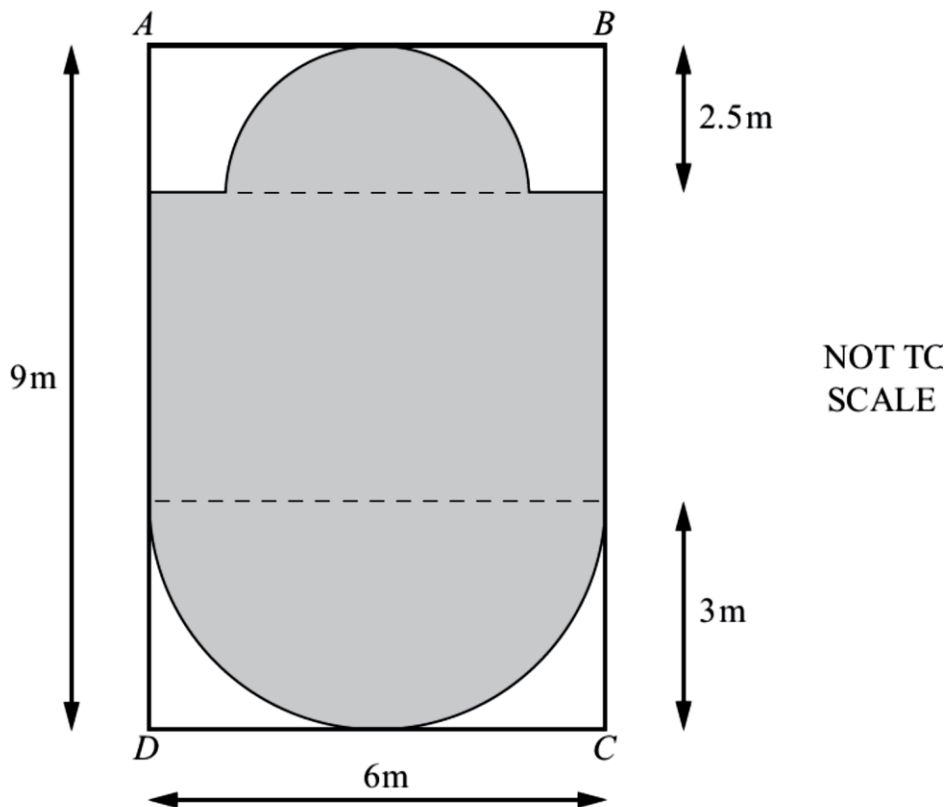
NOT TO
SCALE

$(x-2)$ cm

x cm

Write down an expression for the area of the triangle.

Area = ……………………. cm ^{2}

5. [April 2017 qp2 #1723]
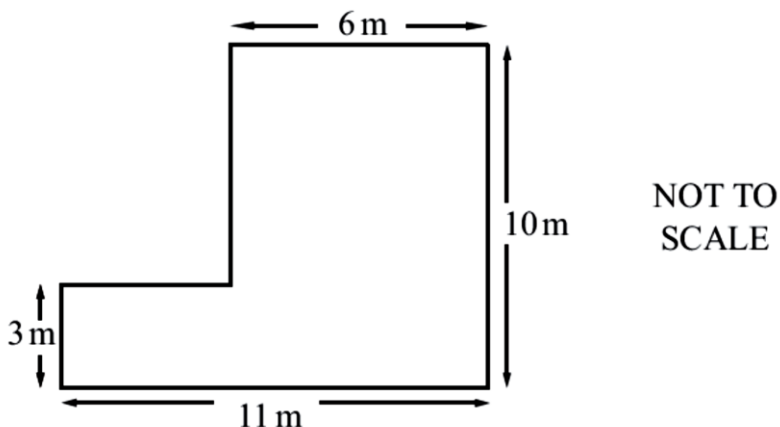
The diagram shows a garden *ABCD*.

The shaded area is covered with grass.
The area covered with grass is formed from two semicircles and a rectangle.
Calculate the area covered with grass.

……………………. m^2

British Maths

6. [April 2016 qp1 #11]

The diagram shows a floor plan.

6 m

NOT TO
SCALE

10 m

3 m

11 m

Calculate the area

……………………. m^2

7. [April 2016 qp1 #20]

The diagram shows a square with a **perimeter** of 20 cm.

NOT TO
SCALE

Eight of these squares fit together to make a rectangle.

NOT TO
SCALE

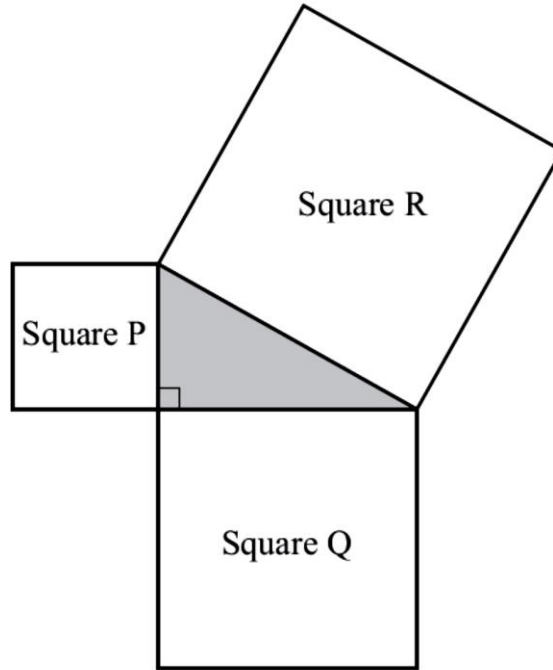Work out the **area** of the rectangle.

……………………. cm^2

British Maths

8. **[April 2016 qp1 #22]**

The diagram shows a right-angled triangle.
Squares are drawn on each of the three sides.

NOT TO
SCALE

Square R

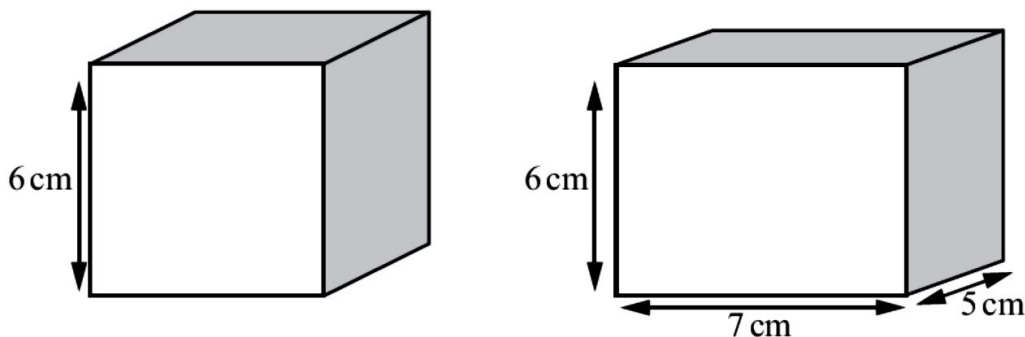Square P

Square Q

Area of Square P = 17 cm2.
Area of Square R = 50 cm2.
Work out the area of Square Q.

……………………. cm^2

9. **[October 2019 qp2 #5]**

   The diagram shows a cube and a cuboid.

   NOT TO SCALE

   6 cm

   6 cm

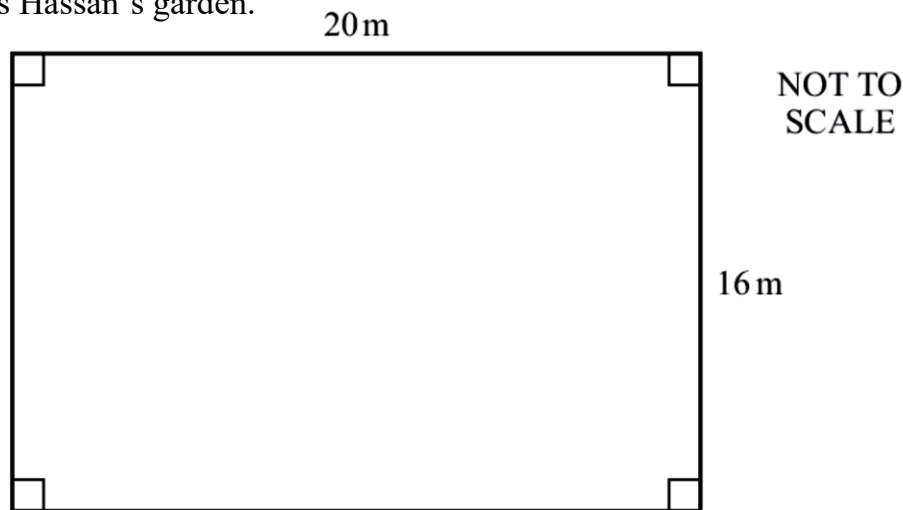   7 cm   5 cm

   Tick (✔) to show which has the larger volume.

   Cube ☐   Cuboid ☐

   You must show how you calculated your answer.

10. **[October 2019 qp2 #23]**

    The diagram shows Hassan's garden.

    20 m

    NOT TO SCALE

    16 m

    1 m^3 of soil has a mass of 1.2 tonnes.
    Hassan buys 30 tonnes of soil.

    He spreads the soil evenly over his garden.

    Calculate the depth, in centimetres, of soil he spreads on his garden.

    …………………… cm