6 Jo makes a pendant from a rectangular piece of silver.

8 cm

5 cm

Not to scale
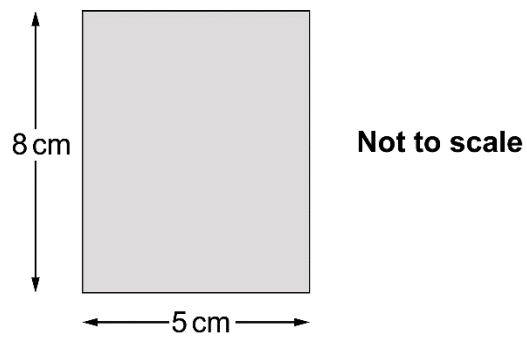
(a) Work out the area of this rectangle.

(a) .... cm^2 **[1]**

(b) To complete the pendant, Jo cuts two semicircles of radius 1 cm from the rectangle, as shown below.

8 cm

5 cm

Not to scale
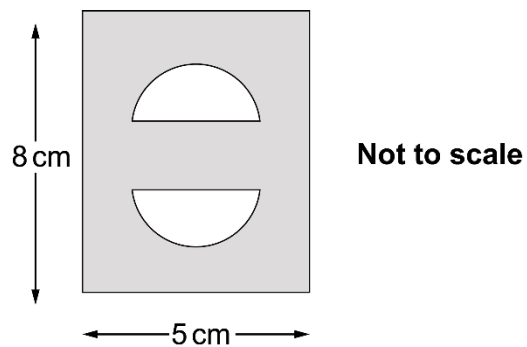
Show that the shaded area is 36.9 cm^2 correct to three significant figures. **[4]**