



## 4 (c) (i)

Construct a square *opqr* with side of length 8 cm. **STEP 1**. Using a ruler draw a side *op* of length 8 cm.

**STEP 2**. Place the right-angle of a set square on point *o* and draw a light line. Do the same at point *p*.

**STEP 3**. Using the ruler draw a line, or, of length 8 cm from point o through the light line. Do the same at point p drawing line pq.

**STEP 4**. Complete the square by joining r to q to form line rq. Using your set square, make sure all the angles are right-angled. Using your ruler, make sure each side is of length 8 cm.



## 4 (c) (ii)

Scale factor k = 0.25

The lengths of the image of each side  $8 \times 0.25 = 2$  cm



**NOTE:** All lengths shown are approximate. When you are doing the question the lengths must be the exact measure.

4 (c) (iii) Area of the image square  $= 2 \text{ cm} \times 2 \text{ cm} = 4 \text{ cm}^2$ 

