# Perimeter of polygons

**White Rose MATHS**

**1** Calculate the perimeters of the polygons.

**a)**

8 cm

3 cm          3 cm

8 cm

**b)**

6 cm     10 cm

8 cm

**c)**

11 cm

6 cm

8.5 cm

**d)**

9.2 cm          9.2 cm

4 cm

3.5 cm          3.5 cm
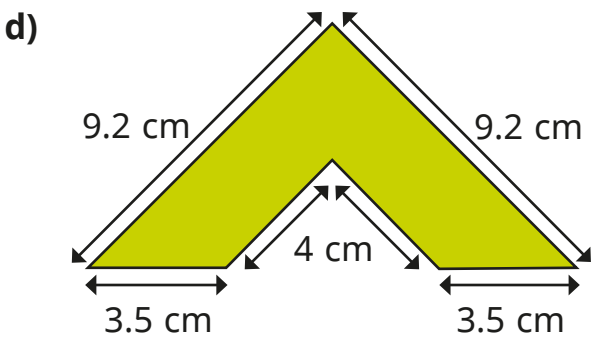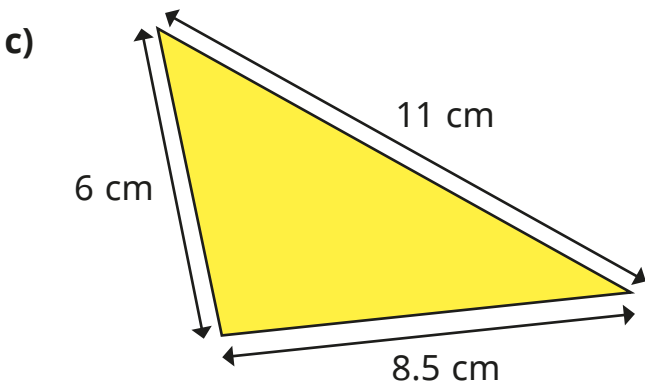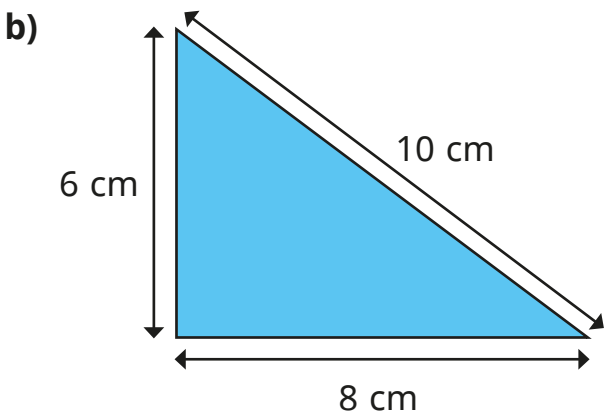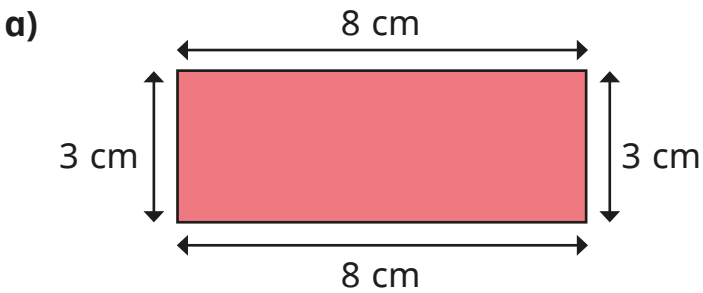
**2** The side length of each regular polygon is 5 cm.

Work out the perimeters.

**a)**
5 cm

**d)**
5 cm

**b)**
5 cm

**e)**
5 cm

**c)**
5 cm

**f)**
5 cm
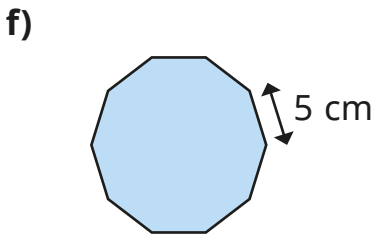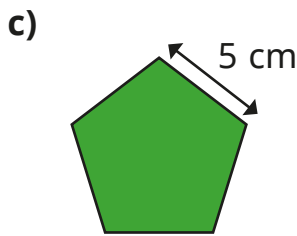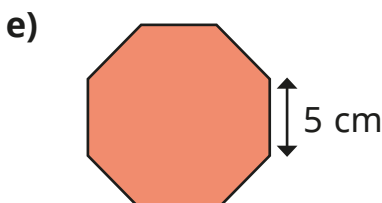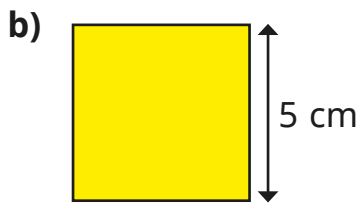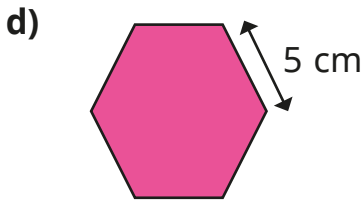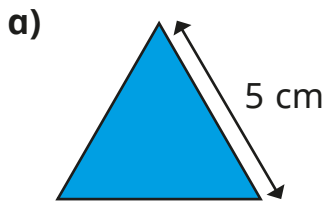
How did you do it?

Compare methods with a partner.

**3** Each regular hexagon on the grid has a side length of 2 cm.
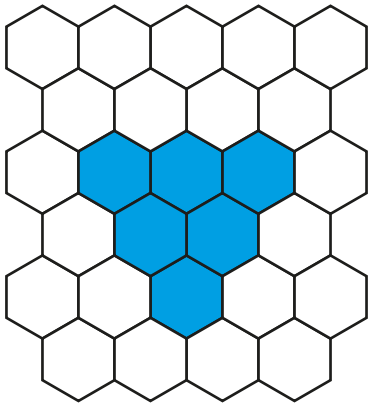
What is the perimeter of the shape?

**4** Three regular polygons each have a perimeter of 120 cm.

What is the side length of each polygon?

**a)** square

**b)** equilateral triangle

**c)** hexagon

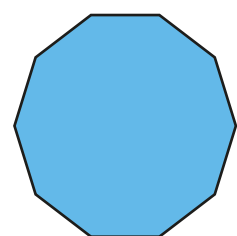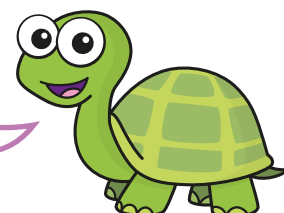**5** Tiny measures the total length of four sides of this regular decagon.

The total length of four sides is 22 cm.

Calculate the perimeter of the decagon.

**6** A tennis court has a length of 24 m and a width of 11 m.

A football pitch has a length of 105 m and a width of 68 m.

Scott walks around the perimeter of a tennis court four times.

Aisha walks around the perimeter of a football pitch once.

Who walks further?  _____

Show your workings.

**7** The length of a rectangle is 4 times its width.

The perimeter of the rectangle is 85 mm.

What is the length of the rectangle?

**8**

A
B
C
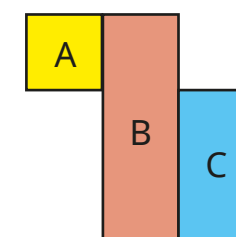
- A, B and C are all the same width.
- A is a square with a perimeter of 32 cm.
- B and C are rectangles.
- The length of C is twice the length of A.

Work out the perimeter of the shape.

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