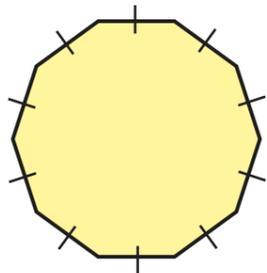
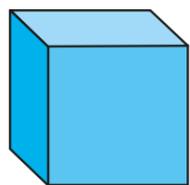
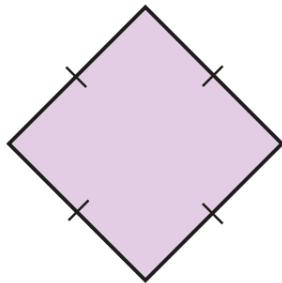
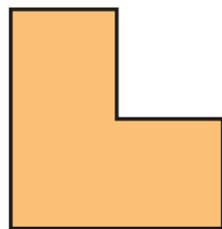
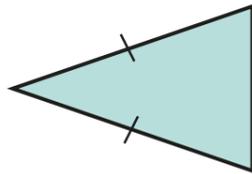
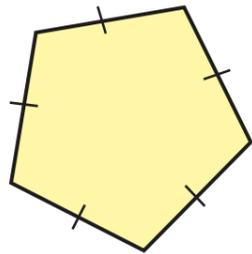
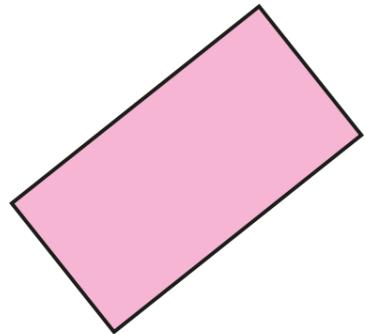
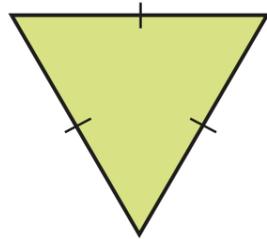


Perimeter of regular polygons

1 Tick the shapes that are regular polygons.

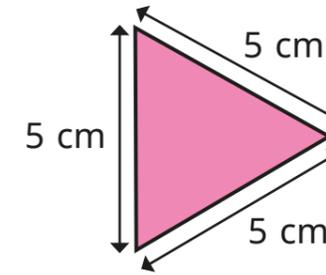


Compare answers with a partner.



2 Work out the perimeter of each shape.

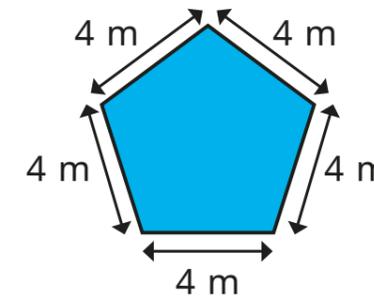
a)



$$5 \text{ cm} + 5 \text{ cm} + 5 \text{ cm} = \boxed{} \text{ cm}$$

The perimeter is $\boxed{}$ cm.

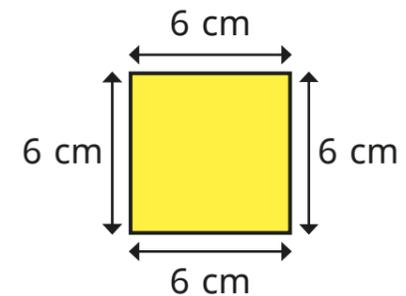
b)



$$\boxed{} \text{ m} + \boxed{} \text{ m} + \boxed{} \text{ m} + \boxed{} \text{ m} + \boxed{} \text{ m} = \boxed{} \text{ m}$$

The perimeter is $\boxed{}$ m.

c)

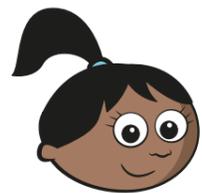


$$\boxed{} \text{ cm} + \boxed{} \text{ cm} + \boxed{} \text{ cm} + \boxed{} \text{ cm} = \boxed{} \text{ cm}$$

$$\boxed{} \times 6 \text{ cm} = \boxed{} \text{ cm}$$

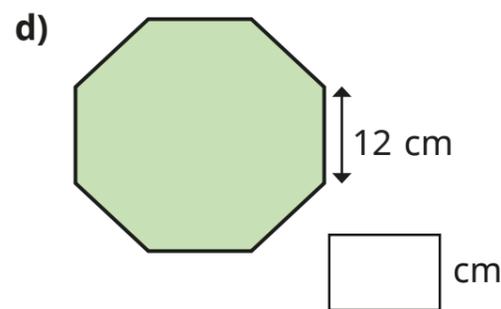
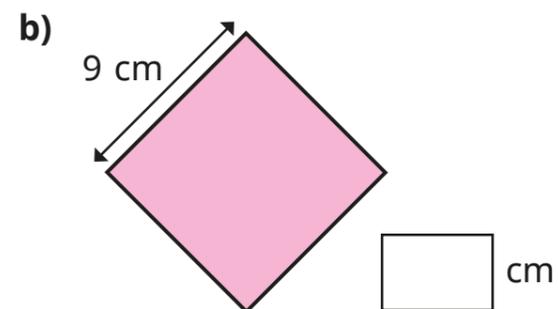
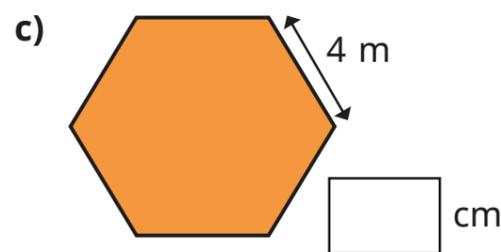
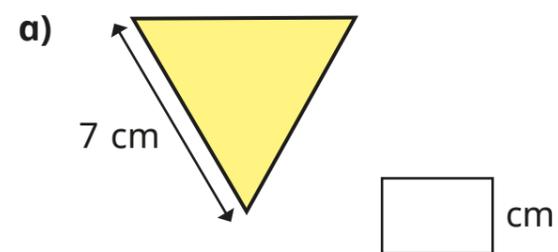
The perimeter is $\boxed{}$ cm.

3 Sam has spotted a pattern.

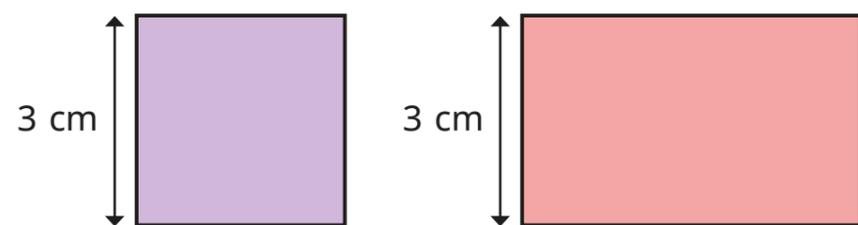


To find the perimeter of a regular polygon, I can just multiply the length of one side by the number of sides.

Use Sam's method to work out the perimeters of the regular polygons.



4 Tiny is working out the perimeters of the shapes.



These shapes have the same perimeter.

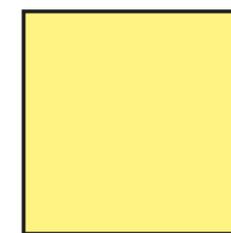


Do you agree with Tiny? _____

Talk about your answer with a partner.

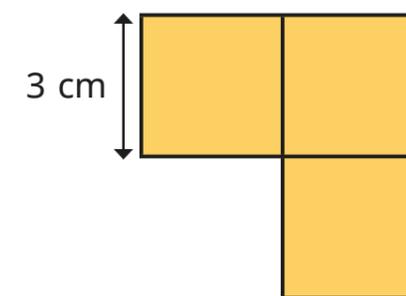


5 The perimeter of the square is 28 cm.
What is the length of each side?



cm

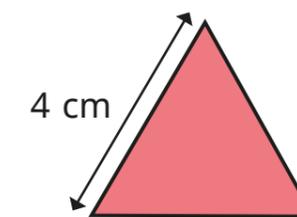
6 Ron makes this shape using squares.



a) What is the perimeter of Ron's shape?

cm

b) Alex joins some of these equilateral triangles together. Alex's and Ron's shapes have the same perimeter.



What could Alex's shape be?

