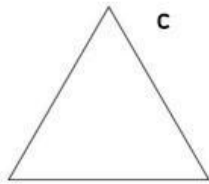


Unit 8 - Shapes and Symmetry

1 Draw the lines of symmetry on each of these shapes.



b



c



2 Write the order of rotational symmetry for each of the shapes in Question 1.

a _____

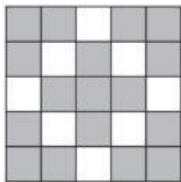
b _____

c _____

3 For this pattern, write:

a the number of lines of symmetry _____

b the order of rotational symmetry _____



4 a Sketch a regular pentagon.

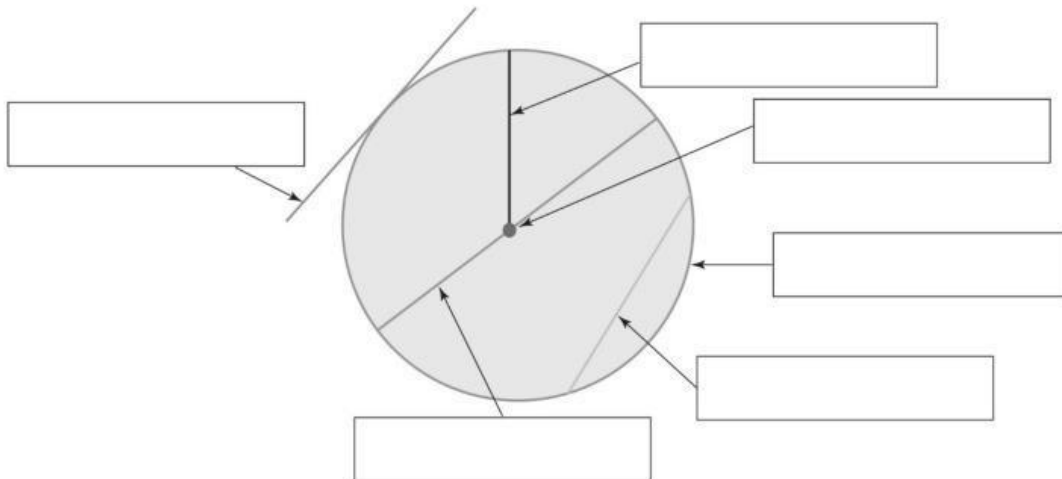
b Complete the properties to characterise a regular pentagon.

A regular pentagon has:

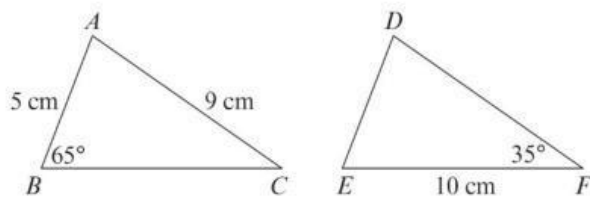
- _____ sides the same length
- _____ lines of symmetry

- _____ angles the same size
- rotational symmetry of order _____.

5 Write the names of the parts of the circle in the boxes.



6 Triangle ABC is congruent to triangle DEF .



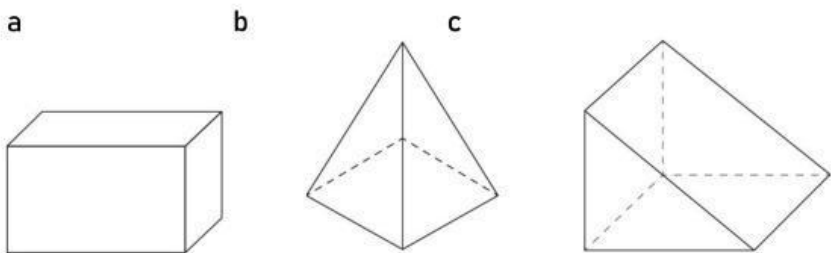
- Write the length of the side:
 - BC _____
 - DE _____
 - DF _____
- Write the size of $\angle ACB$. _____
- Work out the size of $\angle BAC$. _____

d Complete these sentences.

- i Side AB corresponds to side _____.
- ii Side BC corresponds to side _____.
- iii Side AC corresponds to side _____.
- iv $\angle ABC$ corresponds to \angle _____.
- v $\angle BAC$ corresponds to \angle _____.
- vi $\angle ACB$ corresponds to \angle _____.

7 Identify and describe the properties that characterise these 3D shapes.

Write your answers in the table.



	a	b	c
Name of shape			
Number of faces			
Number of edges			
Number of vertices			

8 Draw the top view, front view and side view of this cylinder.

top view

front view

side view

