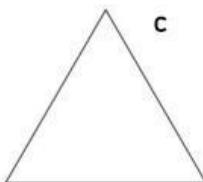


## Unit 8 - Shapes and Symmetry

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



b



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

a \_\_\_\_\_

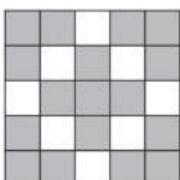
b \_\_\_\_\_

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.

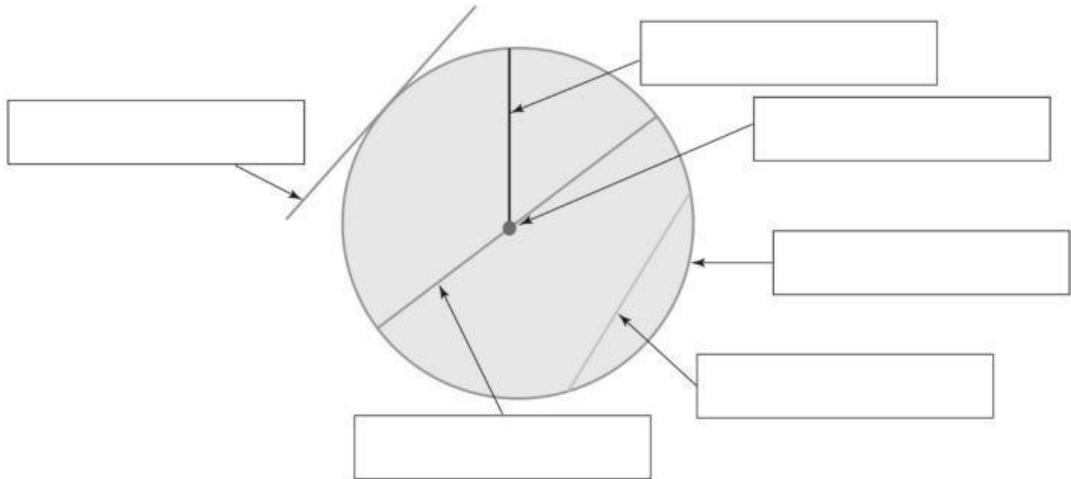
b Complete the properties to characterise a regular pentagon.

A regular pentagon has:

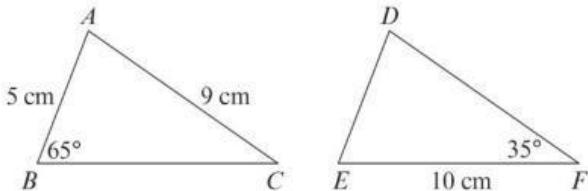
- \_\_\_\_\_ sides the same length
- \_\_\_\_\_ lines of symmetry

- \_\_\_\_\_ 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  $DEF$ .



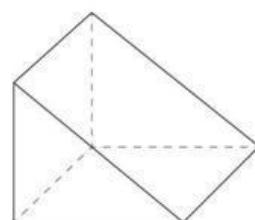
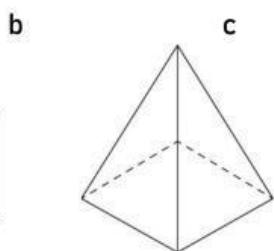
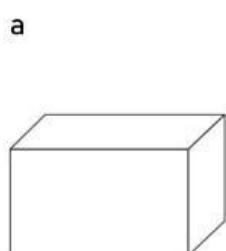
- a Write the length of the side:
- $BC$  \_\_\_\_\_
  - $DE$  \_\_\_\_\_
  - $DF$  \_\_\_\_\_
- b Write the size of  $\angle ACB$ . \_\_\_\_\_
- c Work out the size of  $\angle BAC$ . \_\_\_\_\_

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

