

# ROTATIONAL SYMMETRY

## MTH 4-19a

Having investigated patterns in the environment, I can use appropriate mathematical vocabulary to discuss the rotational properties of shapes, pictures and patterns and can apply my understanding when completing or creating designs.

### Pupils should be able to:

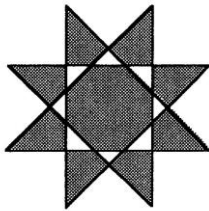
- Recognise shapes possessing rotational symmetry
- Know the meaning of the term *centre of symmetry*, *order of symmetry*.
- Determine the order of rotational symmetry of a given shape.
- Complete partial figures given the centre and order of symmetry.

PUPILS SHOULD COMPLETE THE FOLLOWING EXERCISE AND ASSESS THEIR PROGRESS BY TICKING ONE OF THE OPTIONS FOR EACH TOPIC IN THE TABLE BELOW

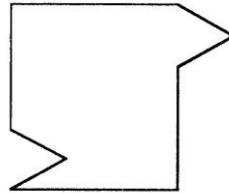
	DEVELOPING	CONSOLIDATING	SECURE
Recognise rotational symmetry Questions 1 - 2			
Know the terms : <i>centre of symmetry</i> and <i>order of symmetry</i> Questions 3 - 4			
Complete partial figures : given centre and order of symmetry Questions 5 - 6			

1 Which of these shapes have half turn symmetry?

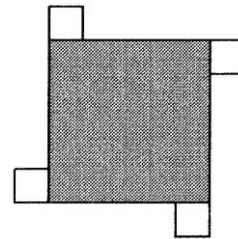
a



b

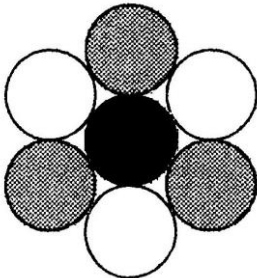


c

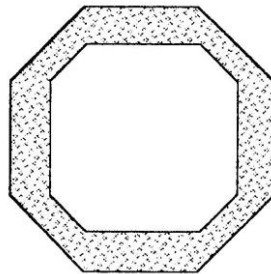


2 What is the order of symmetry of the following shapes.

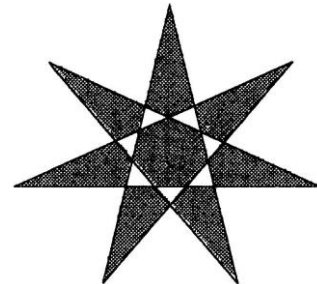
a



b



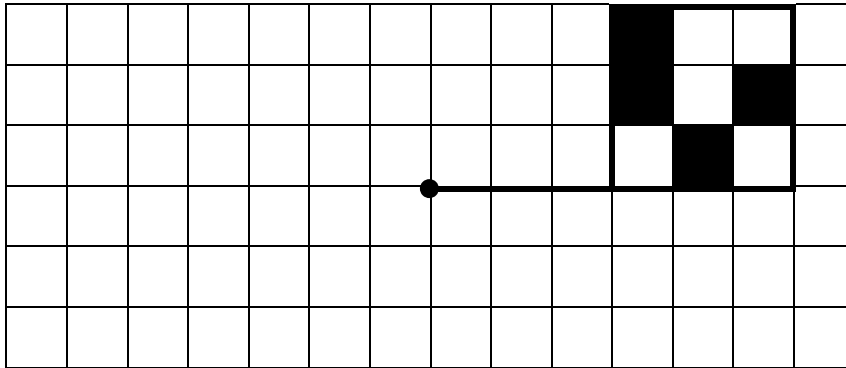
c



3 Write a sentence to show that you understand the term *centre of symmetry*.

4 Write a sentence to show that you understand the term *order of symmetry*.

5 Rotate the flag so that the picture has order 2 rotational symmetry.



6 Rotate the flag so that the picture has order 4 rotational symmetry.

