Maths Assessment Year 2 Term 2: Geometry – Position and Direction

1. Order and arrange combinations of mathematical objects in patterns and sequences.

2. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter half and three quarter turns (clockwise and anticlockwise).
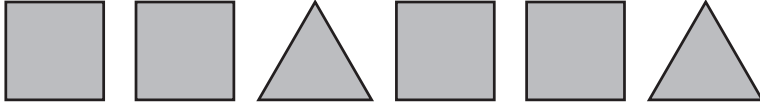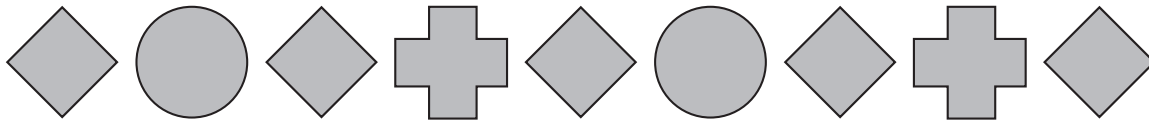
Name: Date:

Maths Assessment Year 2 Term 2: Geometry – Position and Direction

1. Order and arrange combinations of mathematical objects in patterns and sequences.

a) Draw the next three shapes in this sequence.

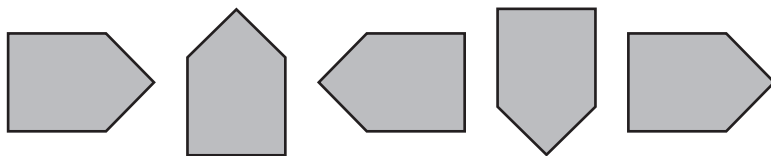**b)** In this sequence, what is the next shape?

c) In the above sequence, explain why the sixteenth shape will be a cross.

d) Draw the next shape in the sequence.

e) Can you describe what is happening in the above pattern?

You might use words like:

clockwise, anticlockwise, half , quarter or three quarter turn.

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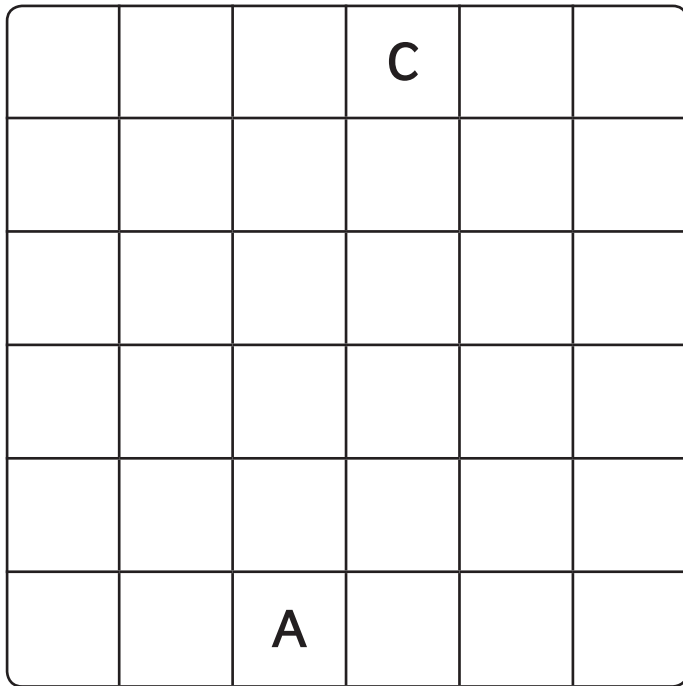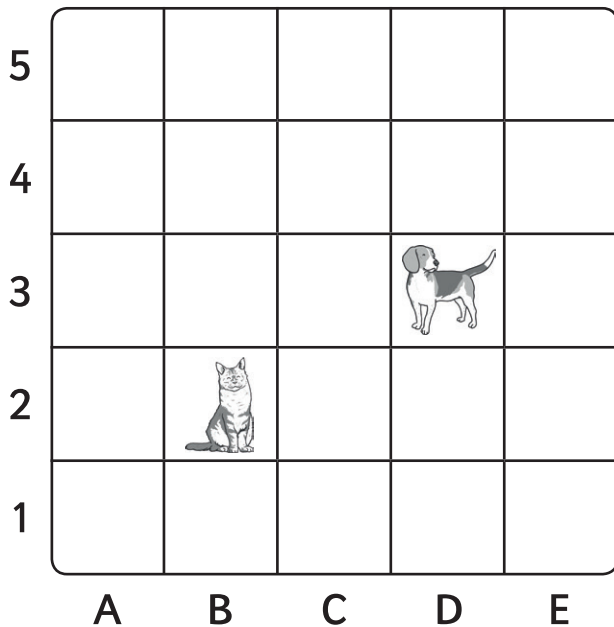
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2. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter half and three quarter turns (clockwise and anticlockwise).

			C		
		A			

a) Start in the square marked A. Move up 3 squares, make a quarter turn clockwise and move forward 2 squares. Write the letter B in the square where you finished.

b) From square C move down 4 squares, make a quarter turn anticlockwise and move forward one square. Write the letter D in the square where you have finished.

c) Using the grid below, write the location of the animals in the table.

Animal	Square
Cat	
Dog	

5

4

3

2

1

A   B   C   D   E

a) Describe how the dog can get to the same square as the cat.

You might use words like:

clockwise, anticlockwise, half, quarter or three quarter turn.
Walk forwards ____ squares.

_____

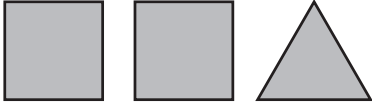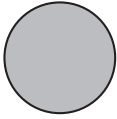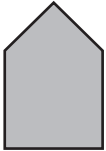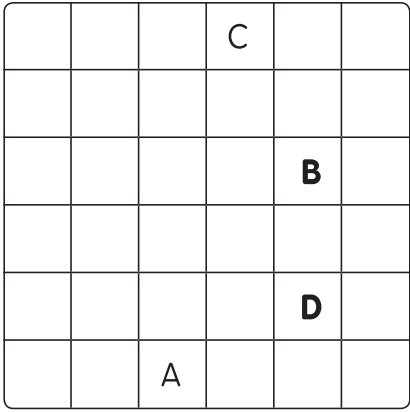_____

question	answer	marks	notes
1. Order and arrange combinations of mathematical objects in patterns and sequences.			
a		1	
b		1	
c	I counted up square, circle, square, cross until I got to 16. The pattern is in 4s and as 16 is a multiple of 4, the sixteenth shape will be the fourth shape.	1	Accept any reasonable explanation.
d		1	
e	Each shape is turning a quarter turn anticlockwise. Or three quarter turn clockwise.	1	Accept any words to this effect.
2. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter half and three quarter turns (clockwise and anticlockwise).			
a/b		2	1 mark for each of B and D in the correct place.
c	D3 and B2	1	1 mark for both correct.
d	The dog needs to walk 2 squares forwards, take a quarter turn anticlockwise and move forward 1 square.	2	2 marks for a correct answer, and 1 mark for only 1 mistake.
		Total 10	