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## Maths Assessment Year 2 Term 3: Geometry – Position and Direction

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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).

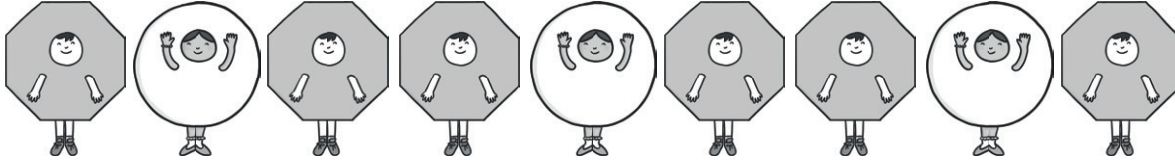
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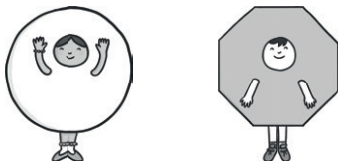
# Maths Assessment Year 2 Term 3: Geometry – Position and Direction

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

Here is a sequence:

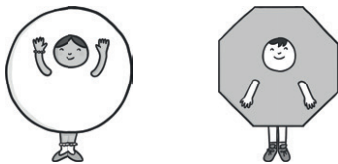


a) Ring the shape that would be next in the sequence:



1 mark

b) Ring the shape that would be the 11th shape in the sequence:



1 mark

c) Explain why the octagon would be the 15th shape in the sequence.

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1 mark

d) Draw the next shape in the sequence.



1 mark

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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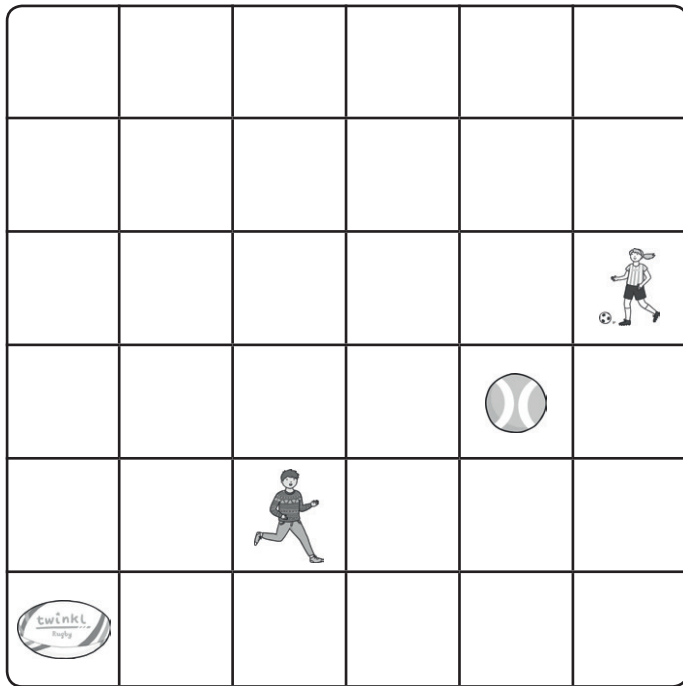
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1 mark

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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).



a) The girl moves forward 3 squares and makes a quarter turn clockwise and moves forward one more square. Draw the football in the square in which you have finished.

1 mark

b) Describe how the boy can move to the tennis ball.

You might use words like:

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

*Walk forwards \_\_\_ squares.*

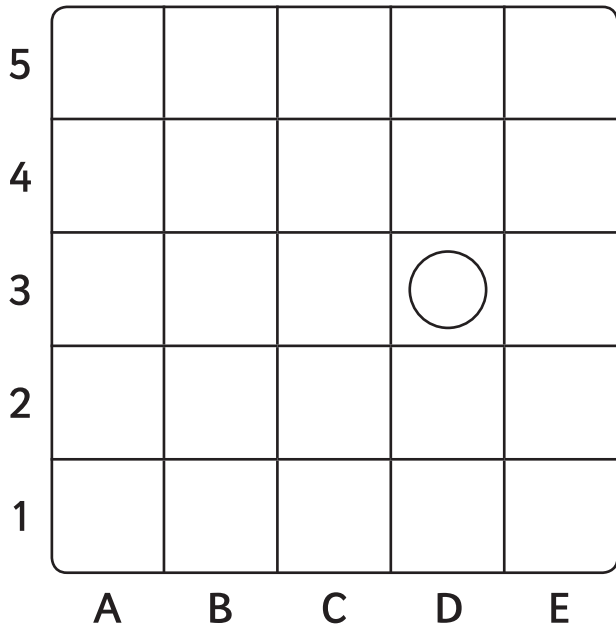
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1 mark

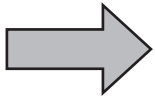
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c) Using the grid below, write an X in square B5.

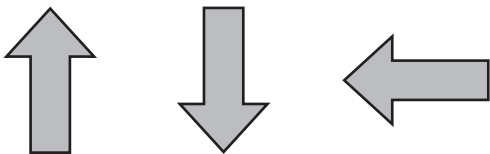


d) In which square is the ○?

e) Turn this arrow one quarter turn anticlockwise.



Circle the arrow that shows which way the arrow will point after the turn.



1 mark



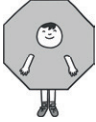


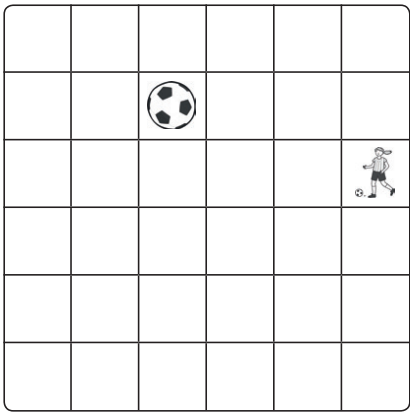

1 mark



1 mark



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question	answer	marks	notes
<b>1. Order and arrange combinations of mathematical objects in patterns and sequences.</b>			
a		1	
b		1	
c	I counted up octagon, circle, octagon until I got to 15. The pattern is in 3s and as 15 is a multiple of 3, the fifteenth shape will be the third shape.	1	Accept any reasonable explanation.
d		1	
e	Each shape is turning a half turn.	1	Accept any words to this effect.
<b>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).</b>			
a		1	
b	Move forward 2 squares, quarter turn anticlockwise and forward 1 square.	1	
c	X in B5	1	
d	D3	1	
e		1	
		Total 10	