

Year 2 - Maths - Week 1 Geometry: Position & Direction





	Day 1 Activity	Day 2 Activity	Day 3 Activity	Day 4 Activity	Day 5 Activity
10 minutes	Practice on Times Table Rock Stars for 10 minutes a day				
Mental Maths (to aid fluency)	Using the words forwards, backwards, left and right, give someone instructions to follow when moving around at home e.g. in the kitchen to get a drink.	Use a toy and turn it ask your partner to describe the turn using the language, 'full turn', 'half turn', 'quarter turn', 'three-quarter turn', 'clockwise' and 'anticlockwise'.	Describe the route Dennis takes to school. 	Give instructions to describe an object. Which direction is ____ facing to begin with? Move the object - describe how you moved it. Why is this important?	Draw a pattern using 2 shapes - ask someone else to describe the pattern - can they guess what would come next?
Problem/activity of the day	 Amir The sheep has moved 2 squares forward. Is Amir correct? Explain your reasoning.	How many different routes can you write for the bee to get to the hive? Use the words forwards, backwards, left and right. 	Look at the number shape below: How could the number shape have turned? Describe all possibilities.	Always, Sometimes, Never If two objects turn in different directions they will not be facing the same way.	Is Whitney correct? A quarter turn clockwise is the same as a three-quarter turn anticlockwise. Convince me.
Resources you will need	Paper and pencils	Paper and pencil	Paper and pencil	Paper and pencil	Paper and pencil
Theme	Geometry: Position & Direction	Geometry: Position & Direction	Geometry: Position & Direction	Geometry: Position & Direction	Geometry: Position & Direction

See below for: extra activities and answers to problems

Day 1

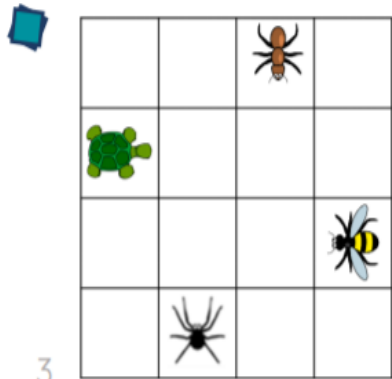
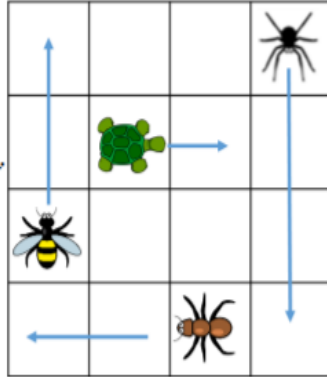
Complete the stem sentences to describe the movements made.

The  has moved 1 square _____.


The  has moved ___ squares _____.


The _____ has moved 2 squares up.

The _____ has moved ___ squares down.




Record these movements on the grid using arrows.

The  moves 1 square right.

The  moves 3 squares forward.

The  moves 1 square down.

The  moves 1 square up.

Day 2

Match the turn to the description.



A full turn.



A quarter turn clockwise.



A half turn anticlockwise.

Describe how the triangle has turned each time.




The triangle has made a _____ turn _____.

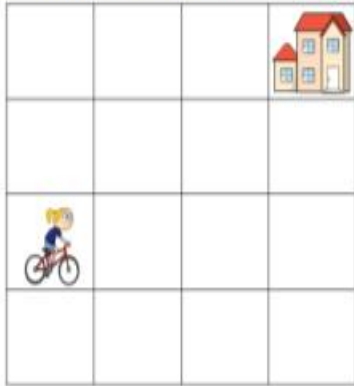


The triangle has made a _____ turn _____.




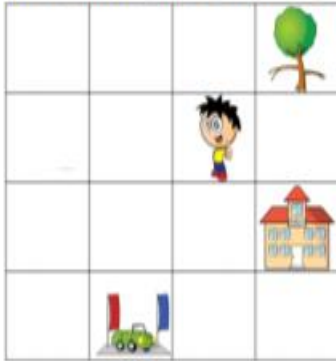
The triangle has made a _____ turn _____.

 Draw the route to show these directions.



- Forward 1 square. Turn left.
- Forward 1 square, quarter turn anti-clockwise.
- Forward 1 square. Make a quarter turn clockwise.
- Forward 1 square. Make a three quarter turn anti-clockwise. Forward 3

 Write directions for Dennis to get to each place on the map.



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How many different routes can you find to get from start to finish. Use the words 'forwards', 'backwards', 'clockwise', 'anti-clockwise' and 'quarter turn'.



Fill in the missing shapes to complete the patterns.



Describe the turn for each pattern.



Problem Answers

- Day 1 - Answer to problem: Amir is incorrect. The sheep has moved 2 squares to the left because of the way it was facing to begin with.
- Day 2 - Possible answers: Forward 3, Right 1. Right 1, Forward 3. Right 2, Forward 3, Left 1. Right 1, Forward 3. Right 2, Forward 2, Left 1, Forward 1. There are more routes for the children to find.
- Day 3 - Possible answers: No turn Quarter/half/ three-quarter or full turn clockwise. Quarter/half/ three-quarter or full turn anticlockwise.
- Day 4 - Sometimes. It depends on how far the objects are turned - quarter, half, three quarters or full.
- Day 5 - Possible answer: Whitney is correct. A quarter turn clockwise is the same as a three quarter turn anticlockwise. Children may use objects/small people to show their reasoning