

Homework/Extension

Step 3: Describing Movement and Turns

National Curriculum Objectives:

Mathematics Year 2: (2P2) [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 \(clockwise and anti-clockwise\)](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use the instructions to place the arrow in the correct square on the grid. (Using the language up, down, left, right, quarter turn, half turn, whole turn; involving single step instructions).

Expected Use the instructions to place the arrow in the correct square on the grid. (Using the language up, down, left, right, forwards, backwards, quarter turn, half turn, three quarter turn, whole turn, clockwise, anti-clockwise; involving single step instructions).

Greater Depth Use the instructions to place the arrow in the correct square on the grid. (Using the language up, down, left, right, forwards, backwards, quarter turn, half turn, three quarter turn, whole turn, clockwise, anti-clockwise; involving single and multi-step instructions).

Questions 2, 5 and 8 (Varied Fluency)

Developing Write the number of moves needed to move an object to a given position on a grid. (Using the language up, down, left, right, quarter turn, half turn, whole turn; involving single step instructions).

Expected Write the number of moves needed to move an object to a given position on a grid. (Using the language up, down, left, right, forwards, backwards, quarter turn, half turn, three quarter turn, whole turn, clockwise, anti-clockwise; involving single step instructions).

Greater Depth Write the number of moves needed to move an object to a given position on a grid. (Using the language up, down, left, right, forwards, backwards, quarter turn, half turn, three quarter turn, whole turn, clockwise, anti-clockwise; involving single and multi-step instructions).

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain which instructions are correct. (Using the language up, down, left, right, quarter turn, half turn, whole turn; involving single step instructions).

Expected Explain which instructions are correct. (Using the language up, down, left, right, forwards, backwards, quarter turn, half turn, three quarter turn, whole turn, clockwise, anti-clockwise; involving single step instructions).

Greater Depth Explain which instructions are correct. (Using the language up, down, left, right, forwards, backwards, quarter turn, half turn, three quarter turn, whole turn, clockwise, anti-clockwise; involving single and multi-step instructions).

More [Year 2 Position and Direction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Describing Movement and Turns

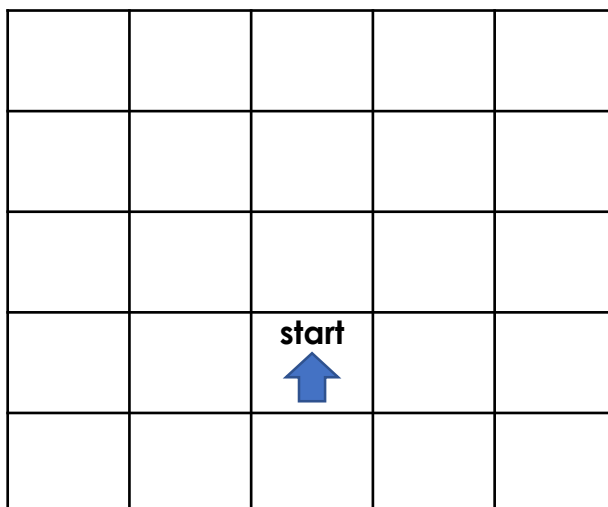
1. Follow the instructions to draw the arrow facing the correct direction in the correct square on the grid.

1. Move left 2 squares.

2. Go up 3 squares.

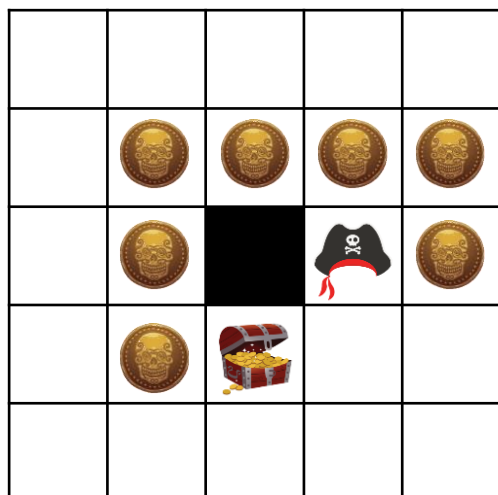
3. Turn one quarter turn right.

4. Move 1 square.



VF
HW/Ext

2. The pirate is following the coins to get to the treasure. How many different moves and turns did he make. Fill in the boxes.



- square right.
- square up.
- squares left.
- squares down.
- square right.



VF
HW/Ext

3. Ismail and Jess are moving the caterpillar to the leaf on the grid.



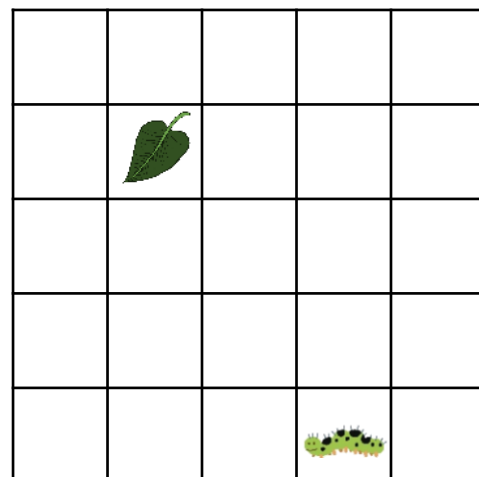
Ismail

Move up 3 squares.
Move forward 2 squares.



Jess

Move forward 1 square.
Move up 3 squares.



Who do you agree with? Explain why.

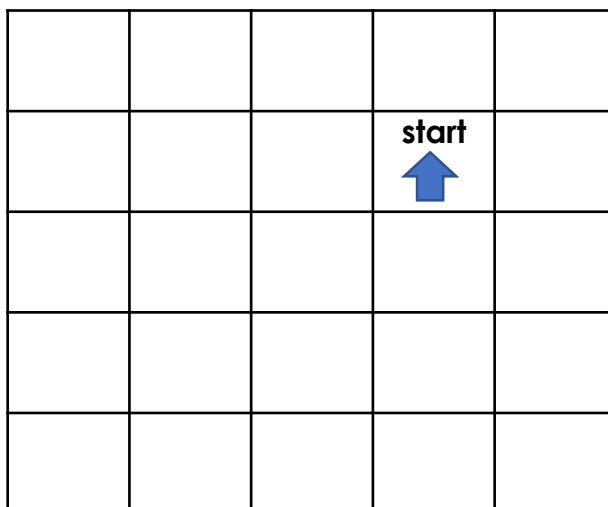


RPS
HW/Ext

Describing Movement and Turns

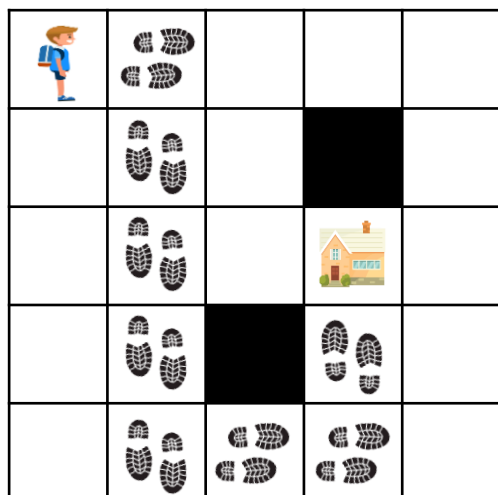
4. Follow the instructions to draw the arrow facing the correct direction in the correct square on the grid.

1. Turn the arrow three quarters of a turn clockwise.
2. Move forwards 3 squares.
3. Turn a quarter turn left.
4. Move forward 2 squares.



VF
HW/Ext

5. The boy is following the footprints to get home. How many different moves and turns did he make. Fill in the boxes.



- square forward.
- quarter turn clockwise.
- squares forward.
- quarter turn left.
- squares forward.
- quarter turn anti-clockwise.
- squares forward.



VF
HW/Ext

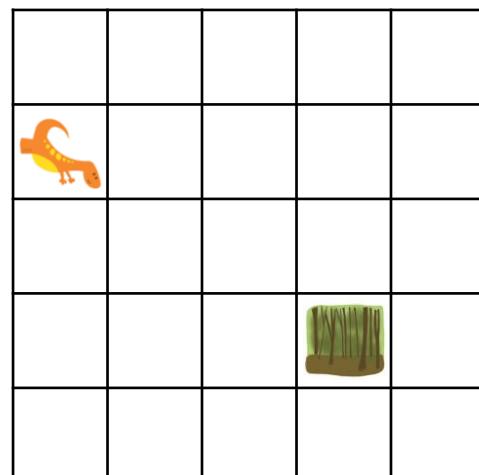
6. Matilda and Ben are talking about the dinosaur moving to the forest.



Move forward 2 squares.
Turn a quarter turn anti-clockwise.
Move forward 3 square.



Move forward 2 squares.
Turn a quarter turn clockwise.
Move right 3 squares.



Who do you agree with? Explain why.

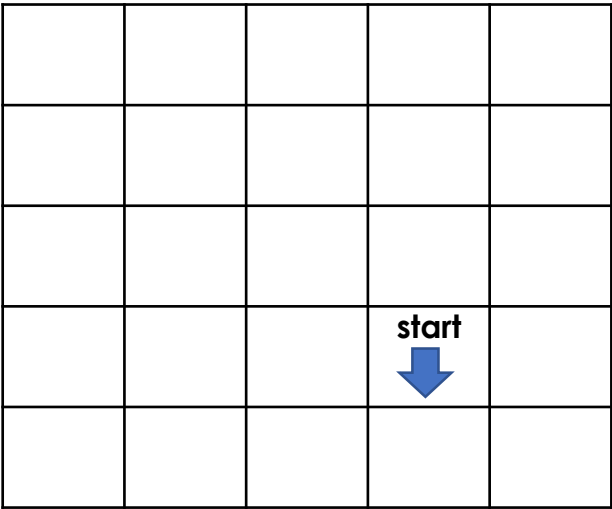


RPS
HW/Ext

Describing Movement and Turns

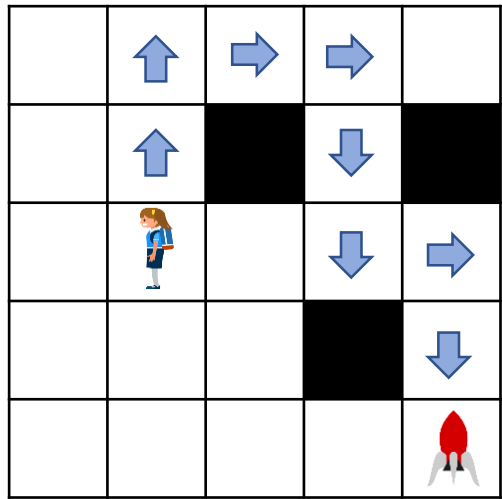
7. Follow the instructions to draw the arrow facing the correct direction in the correct square on the grid.

1. Turn the arrow three quarters of a turn anti-clockwise.
2. Move forwards 3 squares and turn one quarter turn right.
3. Move forward 2 squares and turn right one quarter turn.



VF
HW/Ext

8. The girl is following the arrows to get to the rocket. How many different moves and turns did she make. Fill in the boxes.



- quarter turn right and spaces forward.
- quarter turn right.
- spaces forward.
- quarter turn clockwise.
- spaces forward and quarter turn left.
- space forward and turn clockwise.
- spaces forward.



VF
HW/Ext

9. Jack and Steph are talking about the dog moving to the X to dig for his bone.



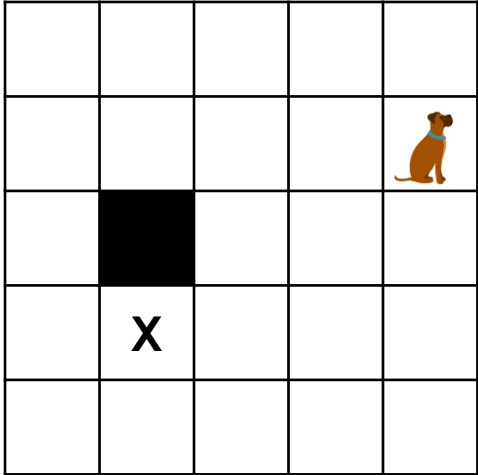
Jack

Move backwards 4 spaces and turn a quarter turn left. Move forward 2 squares and turn a quarter turn anti-clockwise. Move forward 1 square.



Steph

Turn a half turn clockwise. Move forward 2 squares and turn a quarter turn left. Move forward 2 squares. Turn a quarter turn right and move forward 1 square.



Who do you agree with? Explain why.



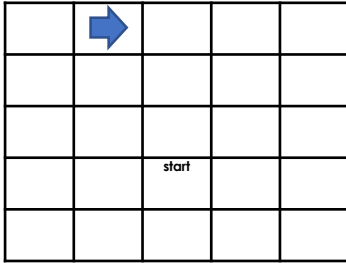
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Homework/Extension

Describing Movement and Turns

Developing

1.

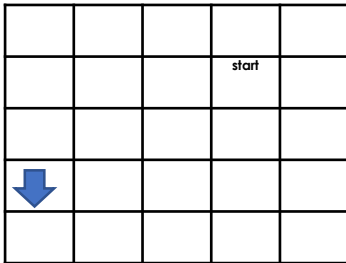


2. 1,1,3,2,1

3. Ismail is correct because he moves the correct number of squares up and then forwards.

Expected

4.

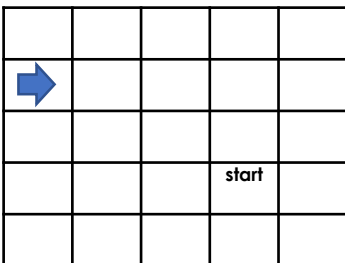


5. 1, 1, 4, 1, 2, 1, 2

6. Matilda is correct because she has turned anti-clockwise which means she is facing the forest before moving forward.

Greater Depth

7.



8. 1, 2, 1, 2, 1, 2, 1, 1, 1, 2

9. Steph is correct because she has turned clockwise which means she is facing the cross before moving forward.