Varied Fluency
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:

Developing Questions to support describing movement and turns of 2D shapes. Using the language up, down, left, right, quarter turn, half turn, whole turn; involving single step instructions.

Expected Questions to support describing movement and turns. 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 Questions to support describing movement and turns. 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.
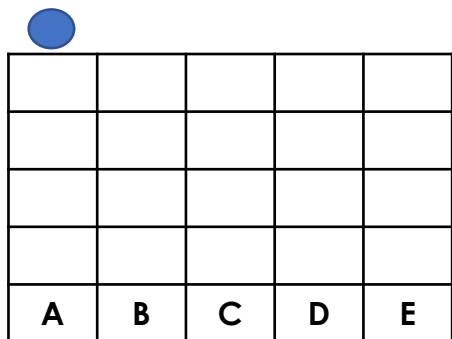
More **Year 2 Position and Direction** resources.

Did you like this resource? Don't forget to **review** it on our website.

1a. Fill in the blanks to reach the letter C. The counter moves down 4. Right ____ . Down 1.

A	B	C	D	E

VF

1b. Fill in the blanks to reach the letter B. The counter moves down 3. _____ 2. Down 2.

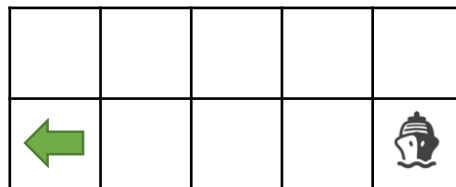|				
A	B	C	D	E
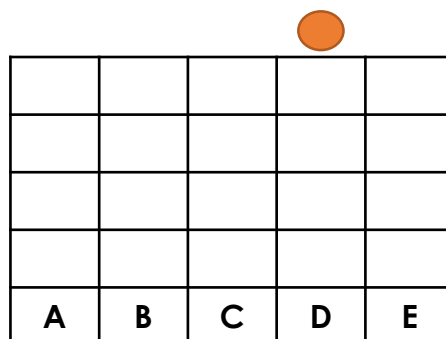
VF

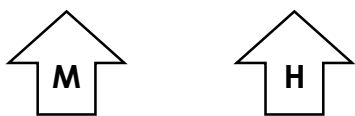**2a.** Move 4 steps forward. How many quarter turns right to face the house?
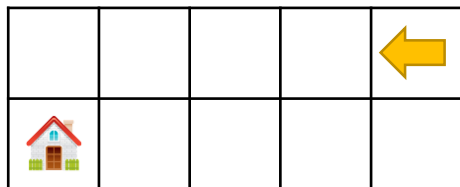
VF

**2b.** Move 3 steps back. How many quarter turns left to face the boat?

VF

3a. Hayley and Max face the same direction. Hayley makes one left quarter turn. How many right quarter turns will Max need to make to face the same direction as Hayley?
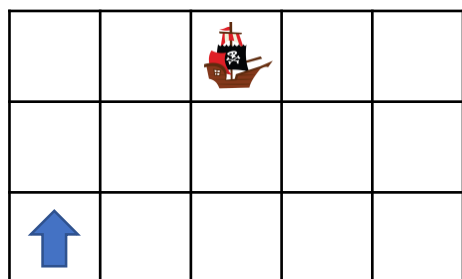
M   H

VF

3b. Yasmin and Jilani face the same direction. Yasmin makes two left half turns. How many right quarter turns will Jilani need to make to face the same direction as Yasmin?
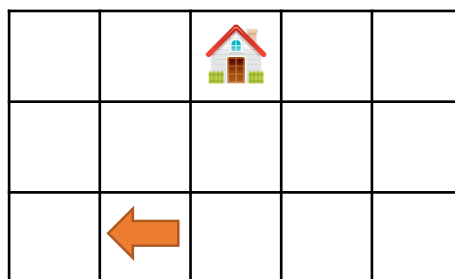
Y   J
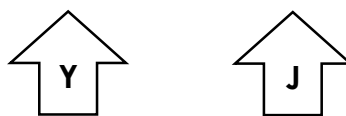
VF

4a. True or false? The pirate will be at the ship if she moves forward 2. Turns one quarter right. Moves forwards 2.

VF

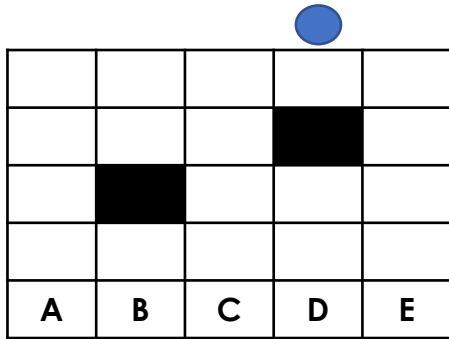**4b.** True or false? Olga will be at the house if she moves right 2. Makes 1 quarter turn right. Moves right 2 squares.

VF

Describing Movement and Turns

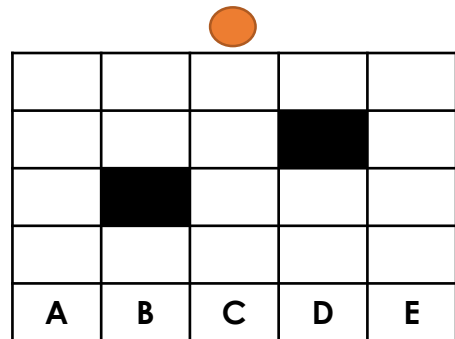**5a.** Fill in the blanks to reach the letter B. The counter moves down 1. Left 1. Down ___ times. Left 1. _____ 1.
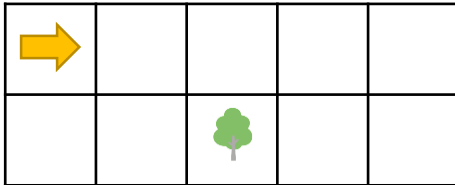
			■	
	■			
A	B	C	D	E

E

VF

Describing Movement and Turns

5b. Fill in the blanks to reach the letter E. The counter moves down 3. _____ 2. Down ___.

			■	
	■			
A	B	C	D	E

E

VF

6a. Move 2 steps forward. How many quarter turns anti-clockwise to face the tree?

E

VF

**6b.** Move 3 steps back. How many quarter turns clockwise to face the house?

E

VF

7a. Jason and Katie face the directions shown below. Jason makes one anti-clockwise quarter turn. How many clockwise quarter turns will Katie need to make to face the same direction as Jason?
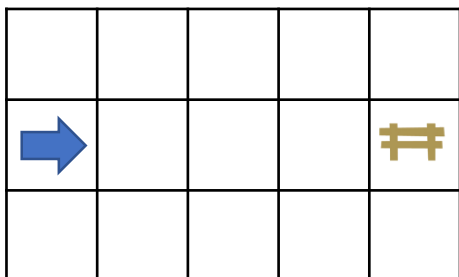
J   K

E

VF

7b. Milly and Faham face the directions shown below. Milly turns a half turn clockwise. How many anti-clockwise quarter turns will Faham need to make to face the same direction as Milly?
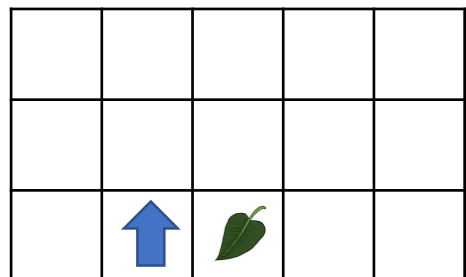
F   M

E
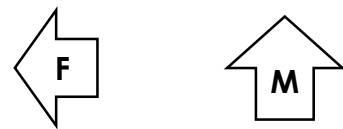
VF

8a. True or false? Susie will be at the gate if she does 1 whole turn. Steps forward 3. Turns 1 quarter turn clockwise. Steps right 1.

E

VF

8b. True or false? The caterpillar will be at the leaf if he turns 1 three-quarter turn clockwise. Moves forward 1. Turns 1 half turn left. Moves forward 2.
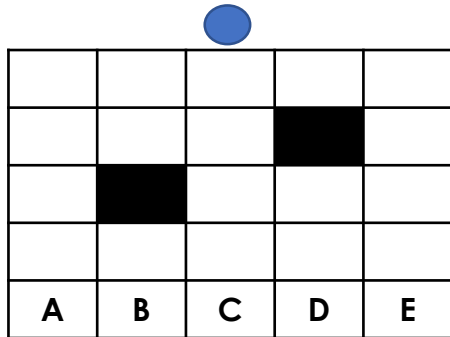
E

VF

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Varied Fluency – Describing Movement and Turns – Year 2 Expected
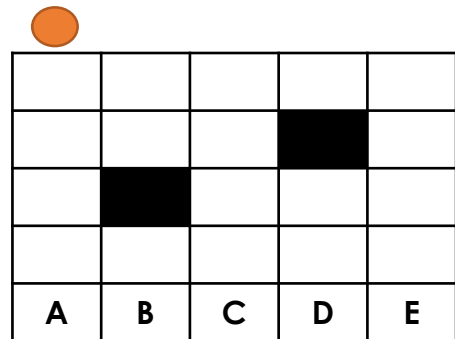
Describing Movement and Turns

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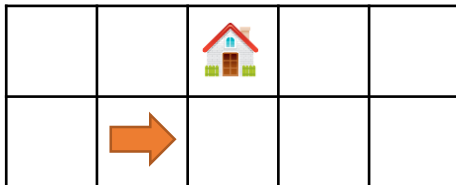**9a.** Fill in the blanks to reach the letter E. The counter moves _____ 2, down 3, left 1, down _____ and _____ 1.

A B C D E

9b. Fill in the blanks to reach the letter E, The counter moves down 4, _____ 4 and down ___.
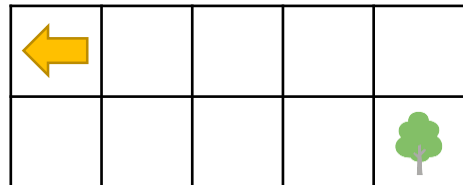
A B C D E

10a. Move 3 steps forward and 1 step left. How many three-quarter turns anti-clockwise to face the house?

10b. Move 1 step left and 3 steps back. How many three-quarter turns clockwise to face the tree?

11a. George and Maisy face the directions shown below. George makes 1 three-quarter turn anti-clockwise. How many clockwise quarter turns will Maisy need to face the same direction as George?
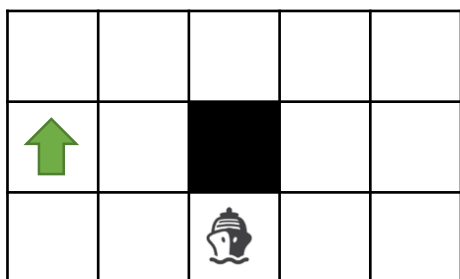
G M

11b. Alexa and Brandon face the directions shown below. Brandon makes a half turn. How many anti-clockwise three-quarter turns will Alexa need to make to face the same direction as Brandon?
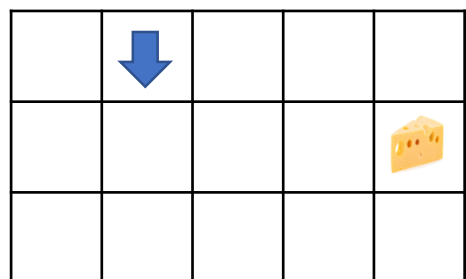
A B

12a. True or false? Jaxson will be at the boat if he makes 1 three quarter turn clockwise steps back 1, turns 1 quarter clockwise and steps right 1.

12b. True or false? The mouse will be at the cheese if it makes 1 quarter turn anti-clockwise, moves right 1, makes 1 half turn and moves back 3.

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Varied Fluency – Describing Movement and Turns – Year 2 Greater Depth

Developing

1a. To reach the letter C, the counter moves down 4, right **2** and down 1.
2a. **3**
3a. **3**
4a. **True**

Expected

5a. To reach the letter B, the counter moves down 1, left 1, down **3** times, left 1 and **down** 1.
6a. **3**
7a. **2**
8a. **False**

Greater Depth

9a. To reach the letter E, the counter moves **right** 2, down 3, left 1, down **2** and **right** 1.
10a. **2**
11a. **2**
12a. **False**

Developing

1b. To reach the letter B, the counter moves down 3, **left** 2 and down 2.
2b. **2**
3b. **4**
4b. **False**

Expected

5b. To reach the letter E, the counter moves down 3, **right** 2 and down **2**.
6b. **3**
7b. **1**
8b. **True**

Greater Depth

9b. To reach the letter D, The counter moves down 4, **right** 4 and down **1**
10b. **2**
11b. **3**
12b. **True**