

Fluency

1 Sort these turns into the correct column.

quarter turn

half turn

full turn

three-quarter turn

 Less than a
half turn

 Exactly a
half turn

 More than
a half turn

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2 Match the movement to the clockwise turn. Draw lines to match.

Movement

Turn

 north \uparrow to east \rightarrow

half turn

 north \uparrow to south \downarrow

three-quarter turn

Reasoning

5 Investigate! Stand up and face the front of your classroom or room.

- Make a quarter turn clockwise. What can you see? _____
- Make another quarter turn clockwise. What can you see? _____
- How many quarter turns clockwise bring you back to the front? _____



Word Problem

3 A pirate follows a treasure map: "Walk 5 steps North, quarter turn clockwise, walk 3 steps, quarter turn clockwise, walk 5 steps." Where does the pirate end up compared to the start?

- The pirate ends up _____ squares to the _____ of the start.
- Draw the pirate's path:



4 Zara says she can get from facing North to facing West in two different ways. Write two different sets of turns that would work.

- Way 1: _____
- Way 2: _____

