

Fluency

- 1 Continue the pattern of turns.

• $\uparrow \rightarrow \downarrow \leftarrow \uparrow$ _____

Each change is a _____ turn clockwise.

• $\uparrow \downarrow \uparrow \downarrow \uparrow \downarrow$

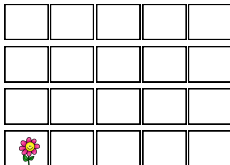
Each change is a _____ turn.

- 2 Direction riddles.

- I face South. Quarter turn anti-clockwise.
I face _____
- I face West. Two quarter turns clockwise.
I face _____
- I face North. Three-quarter turn anti-clockwise. I face _____

Word Problem

- 3 A bee starts at a flower. It flies right 3, up 2, then left 1. Draw its path on the grid. How far from the start is the bee now?



The bee is _____ right and _____ up from the start.

- 4 A key needs a half turn clockwise to open a lock. Amara has turned it a quarter turn clockwise. How much more does she need?

- She still needs a _____ turn clockwise.

Reasoning

- 5 Always, Sometimes, or Never?

- "4 quarter turns in the same direction bring you back to the start."

Always

Sometimes

Never

Explain:

