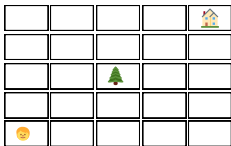


Fluency

- 1 Describe the movement on the grid. Use right, left, up, down.



- Child to tree: _____ right, _____ up
- Tree to house: _____ right, _____ up

- 2 What fraction of a full turn?

- Quarter turn = _____ of a full turn
- Half turn = _____ of a full turn
- Three-quarter turn = _____ of a full turn
- How many quarter turns = 1 full turn? _____

Word Problem

- 3 Priya gives directions: "Forward 4 steps, quarter turn left, forward 2 steps, quarter turn right, forward 3 steps." How many steps? How many turns?

- Steps: _____ + _____ + _____ = _____
- Turns: _____

- 4 A dancer faces South. She makes two quarter turns clockwise. Where does she face? What single turn is the same?

- After turn 1: _____ After turn 2: _____
- Same as a _____ turn.



Reasoning

- 5 Spot the mistake!

Jake says: "If I face North and make a quarter turn clockwise, I will be facing West."

- Is Jake correct? What should the answer be? Explain.