

# Recognizing Flips, Slides, and Turns

## Learning Goal

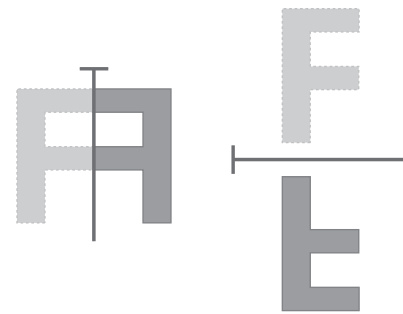
I can recognize a flip, a slide, and a turn. I can describe them using the words “reflection,” “translation,” and “rotation.”

## Lesson Summary

- A flip is when a shape has been moved and looks like its reflection.

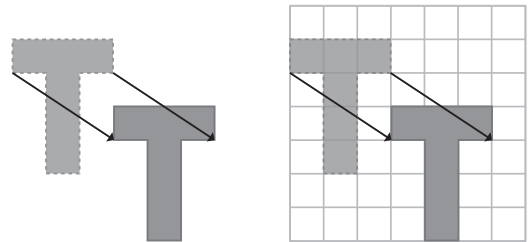
A transparent mirror can help you draw a flipped shape.

A flip is also called a reflection.



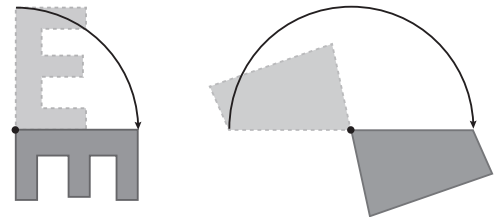
- A slide is when a shape has been moved without turning the shape in any way.

A slide is also called a translation.



- In a turn, a shape is turned around one point.

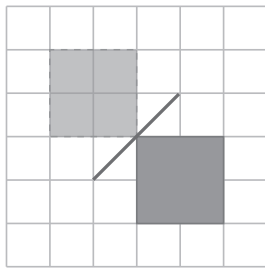
A turn is also called a rotation.



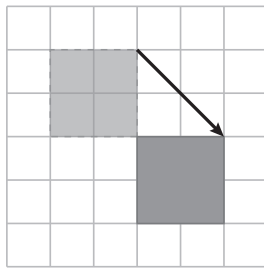
**Recognizing Flips, Slides, and Turns (continued)**

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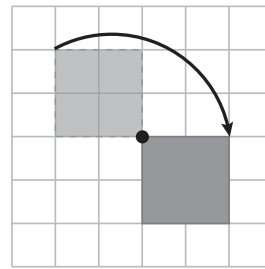
- Sometimes a rotation can look like a reflection or a translation.  
Rotations are easier to identify when shapes are not symmetrical.



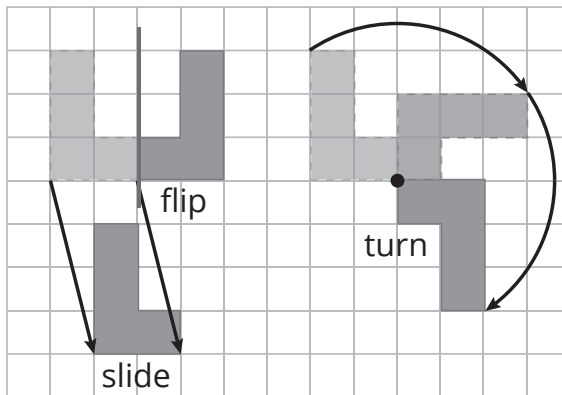
flip



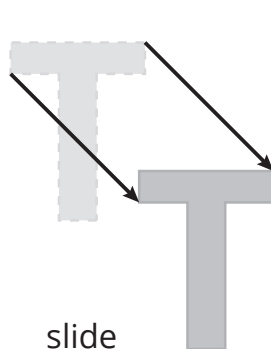
slide



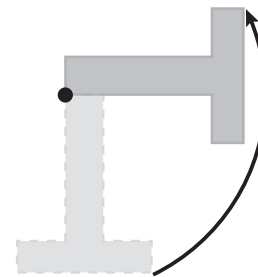
turn



flip



slide



turn

## Recognizing Flips, Slides, and Turns (continued)

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### Key Terms

**reflection (or flip):** a transformation in which a shape is flipped across a line to form a mirror image; it changes orientation but not size or shape

**rotation (or turn):** a transformation in which a shape turns around a point without changing size, shape, or orientation

**transformation:** a process that changes the position or orientation of a shape; for example, translation, reflection, rotation

**translation (or slide):** a transformation in which a shape slides to a new position without changing size, shape, or orientation