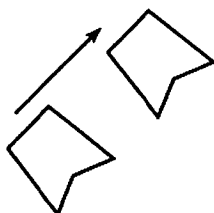




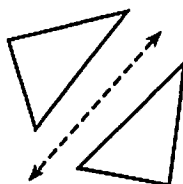
## SKILL 11: Slides, Flips, and Turns

A **transformation** moves a figure to create a new figure called an **image**.

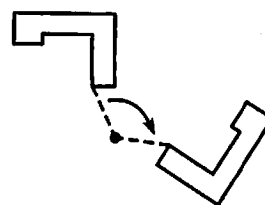
A **slide** moves the original points a specific distance in a specific direction.



A **flip** uses a line as a mirror and flips the original to form its mirror image.



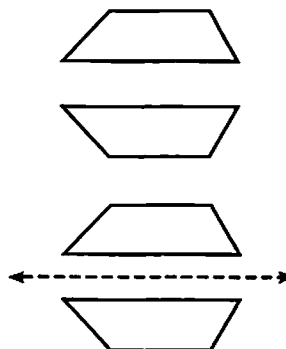
A **turn** rotates the original a certain number of degrees clockwise or counterclockwise around a point.



### Example

What kind of transformation is shown at the right?

If you draw a dashed line half way between the trapezoids, you see that the image is the mirror reflection of the original over the line. The transformation is a flip.



### Guided Practice

What kind of transformation does each diagram show?

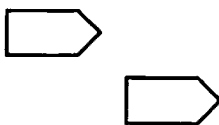
Ask yourself whether pushing the original in a straight line can give you the image. If yes, it is a slide. Or can you draw a line that acts as a mirror, as in the example? In that case, the transformation is a flip. Otherwise, it is a turn.

1.



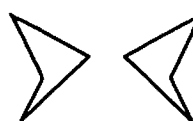
\_\_\_\_\_

2.



\_\_\_\_\_

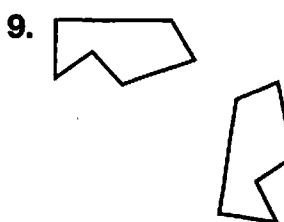
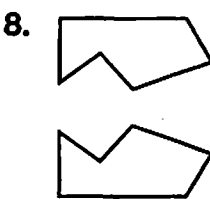
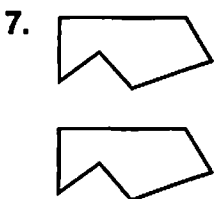
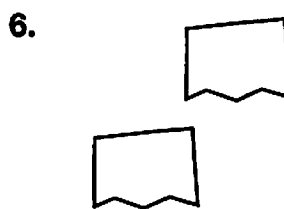
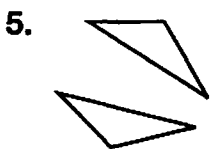
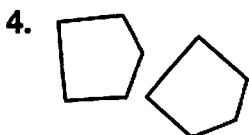
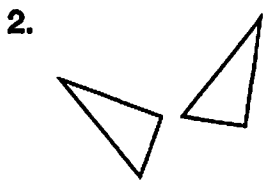
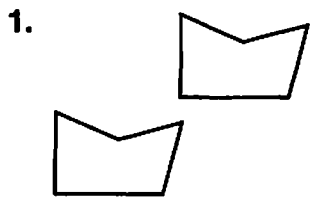
3.



\_\_\_\_\_

**SKILL 11: Practice**

What kind of transformation does each diagram show?

**TEST PREP**

10. Which transformation rotates the original around a point?

A slide

C turn

B flip

D image

*Skill 11*

11. If you mark 6 points on a circle, how many quadrilaterals have 4 of the points as vertices?

F 15

H 10

G 12

J 8

*Skill 5*