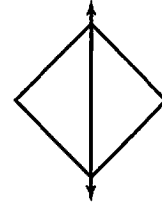# SKILL 12: Line Symmetry

A figure has **line symmetry** if it can be folded so that the two halves coincide exactly. The fold line is called the **line of symmetry**, and the two halves are congruent.

Example 1
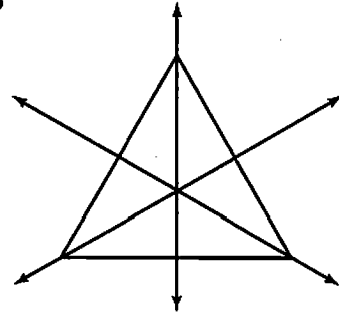
Tell if the line is a line of symmetry.

If the figure is folded on the line, the two parts would match exactly. So, the line is a line of symmetry.

Example 2

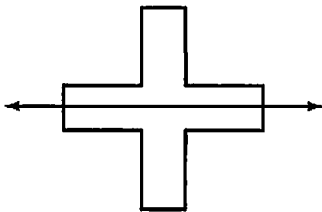**How many lines of symmetry does the figure have?**

Find every line that produces two congruent halves that are mirror images of each other. The figure has 3 lines of symmetry.
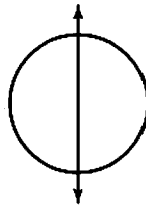
Guided Practice
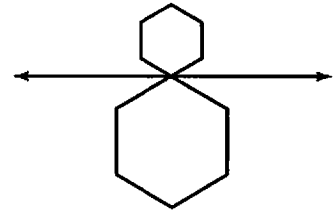
Tell if each line is a line of symmetry. Write *yes* or *no*.
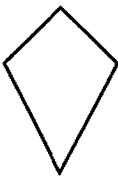
1.

2.

3.

_____   _____   _____

How many lines of symmetry does each figure have? Draw the lines.
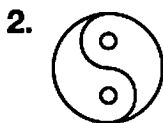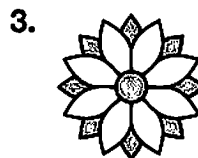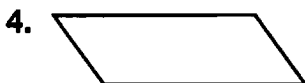
4.

5.

6.

_____   _____   _____

SKILL 12: Practice

Tell whether the figure has line symmetry. If so, how many lines of symmetry does it have?

1.

_____

2.

_____

3.

_____

4.

_____

5.

_____

6.

_____
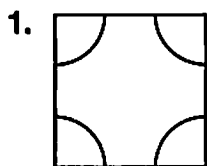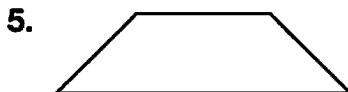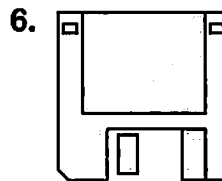
Tell how many lines of symmetry each figure has.

7.

_____

8.

_____

9.

_____
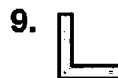
Tell how many lines of symmetry each flag has.

10. Sweden

_____

11. Japan

_____
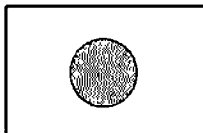
12. Trinidad and Tobago

_____

TEST PREP

13. How many lines of symmetry does a regular pentagon have?

Skill 12

A 1   **C** 6

B 5   **D** 8

14. How many diagonals does a 20-sided polygon have?

Skill 5

F 200   **H** 80

G 170   **J** 40