

Name _____ Date _____

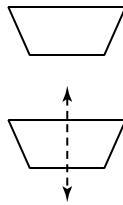
Lines of Symmetry (pages 375–378)

When a figure has a **line of symmetry** (or more than one), you can fold the figure along this line so that the two halves match. A **reflection** is a mirror image of a figure across a line of symmetry.

Finding Lines of Symmetry To look for lines of symmetry, imagine folding the figure in half vertically, horizontally, and diagonally. When the two halves match exactly, then the fold line is a line of symmetry.

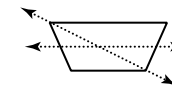
EXAMPLES

A Draw a line of symmetry for the figure at the right.
Think about folding the figure along a line to see if the two halves match.



B Does the figure in Example A have more than one line of symmetry?

No. If you draw a diagonal and fold the figure along it, the two halves do not match. The same is true for a line halfway up the figure.



Try These Together

1. How many lines of symmetry does an equilateral triangle have?
HINT: Sketch the triangle and think about folding it.

2. Do a rectangle (that is not a square) and a square have the same number of lines of symmetry?
HINT: Look at the diagonals to see if they are lines of symmetry.

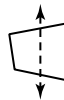
PRACTICE

Tell whether the dashed line is a line of symmetry. Write yes or no.

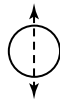
3.



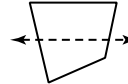
4.



5.



6.



Draw all lines of symmetry in each figure.

7.



8.



9.

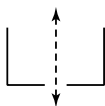


10.

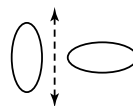


Tell whether the figure shows a reflection.

11.



12.



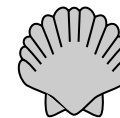
13. Standardized Test Practice How many lines of symmetry does this shell have?

A 1

B 2

C 3

D 4



Answers: 1. 3 2. no 3. yes 4. no 5. yes 6. no 7-10. See Answer Key. 11. yes 12. no 13. A