

Grade 4 Math Worksheet: **Symmetry & Reflections** : Difficulty Level - Intermediate

Name: _____

Date: _____

Instructions: Follow the directions carefully. Use a ruler and pencil for precise lines.

Part 1: Identifying Lines of Symmetry

1. Count the Lines of Symmetry

Write how many lines of symmetry each shape has:

- Rectangle: _____
- Regular hexagon: _____
- Circle: _____
- Right triangle: _____

2. Draw the Lines of Symmetry

On the following shapes, draw all the lines of symmetry:

- A square
 - A regular pentagon
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Part 2: Symmetry and Words

3. Word Symmetry

For each word below, write whether it has vertical symmetry, horizontal symmetry, or none:

- MOM: _____
- WOW: _____
- DOG: _____
- ICE: _____

4. True or False

Write **True** or **False** for each statement:

- The letter "H" has both vertical and horizontal symmetry. _____
 - A kite shape has one line of symmetry. _____
 - A rhombus always has four lines of symmetry. _____
 - The number "8" has vertical symmetry. _____
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Part 3: Drawing Reflections

5. Complete the Drawing

The left half of a picture is shown. Draw the right half to make it symmetrical:

- Half of a house
- Half of a tree

6. Mirror Reflection

Copy the shape and draw its reflection across the dotted line:

! [Example of a shape, such as a fish or arrow, next to a vertical dotted line]

Part 4: Symmetry in Real Life

7. Find the Symmetry

Write **Yes** or **No** for whether the following objects have symmetry:

- Pair of eyeglasses: _____
- Cupcake: _____
- Mountain range: _____
- Flag of your country: _____

8. Match the Object to Its Symmetry Type

Draw a line to match the object with the type of symmetry it has:

Object	Type of Symmetry
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Butterfly	A. Horizontal
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Heart	B. Vertical
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Sunflower	C. Radial
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Ladder	D. No symmetry
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Part 5: Create and Explore

9. Design a Symmetrical Pattern

Create a pattern in the box below that has at least one line of symmetry:

[Box with a vertical guideline]

10. Symmetry Challenge

Fold a piece of paper in half and draw half of a shape along the fold. Cut it out and open the paper to see if it's symmetrical. Draw or describe your shape below:

Shape description:

Great effort! Review your work and share your symmetrical designs with a friend or teacher.

—- BE CHAMPION—-