

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

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Instructions:** Complete each section carefully. Use a ruler for straight lines and check your work.

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**Part 1: Symmetry in Shapes**

**1. Count the Lines of Symmetry**

Write the number of lines of symmetry each shape has:

- Oval: \_\_\_\_\_
- Regular hexagon: \_\_\_\_\_
- Isosceles triangle: \_\_\_\_\_
- Square: \_\_\_\_\_

**2. Draw the Lines of Symmetry**

Draw all lines of symmetry on the following shapes:

- Equilateral triangle
  - Rectangle
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**Part 2: Symmetry in Letters and Numbers**

**3. Symmetry Check**

For each letter or number, write whether it has vertical symmetry, horizontal symmetry, or none:

- A: \_\_\_\_\_
- B: \_\_\_\_\_
- 3: \_\_\_\_\_
- X: \_\_\_\_\_

#### 4. Match the Symmetry Type

Match each letter to its type of symmetry by drawing a line:

Letter/Number	Type of Symmetry
M	A. Vertical
O	B. Both vertical and horizontal
P	C. None
T	D. Horizontal

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#### Part 3: Drawing and Completing Shapes

##### 5. Complete the Symmetrical Shape

The left side of each object is shown. Draw the right side to make it symmetrical:

- Half of a star
- Half of a heart

##### 6. Draw the Mirror Image

Copy the following shape and draw its reflection across the vertical line:

! [Simple shape such as a trapezoid or house outline next to a vertical dotted line]

#### Part 4: Symmetry in Real-Life Objects

##### 7. Symmetry or Not?

Write **Yes** or **No** to indicate if these objects have symmetry:

- Butterfly wings: \_\_\_\_\_
- Pencil case: \_\_\_\_\_
- Spoon: \_\_\_\_\_
- Table: \_\_\_\_\_

##### 8. Examples from Your Environment

Write down two objects you see at home or school that are symmetrical. Specify their type of symmetry (vertical, horizontal, or both):

- Object 1: \_\_\_\_\_ (Type: \_\_\_\_\_)
  - Object 2: \_\_\_\_\_ (Type: \_\_\_\_\_)
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#### Part 5: Creative Symmetry Activity

##### 9. Design a Symmetrical Picture

Create your own symmetrical drawing in the space below. Make sure it has at least one line of symmetry:

[Box with a vertical guideline]

##### 10. Reflection Fun Fact

Write a brief explanation of why symmetry is important in nature or art:

**Explanation:** \_\_\_\_\_

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**Great job! Go over your answers and share your reflections with a classmate or teacher.**

**— BE CHAMPION —**