

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

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

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

**Instructions:** Work carefully through each section. Use a ruler for straight lines and be creative where needed.

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**Part 1: Counting Lines of Symmetry**

**1. Find the Number of Symmetry Lines**

Write how many lines of symmetry each shape has:

- Isosceles triangle: \_\_\_\_\_
- Parallelogram: \_\_\_\_\_
- Square: \_\_\_\_\_
- Semi-circle: \_\_\_\_\_

**2. Draw Lines of Symmetry**

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

- Equilateral triangle
  - Rectangle
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**Part 2: True or False Questions**

**3. Determine True or False**

Write **True** or **False** next to each statement:

- The letter "A" has vertical symmetry. \_\_\_\_\_
- The letter "B" has both vertical and horizontal symmetry.  
\_\_\_\_\_
- A snowflake usually has multiple lines of symmetry. \_\_\_\_\_
- A crescent moon has vertical symmetry. \_\_\_\_\_

### Part 3: Symmetry and Reflections Practice

#### 4. Draw the Reflected Half

Complete the second half of these shapes to make them symmetrical:

- Half of a flower
- Half of a star

#### 5. Mirror Reflection Drawing

Copy the shapes below and draw their reflection across the vertical line:

! [Example of a square and a triangle placed next to a vertical line]

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### Part 4: Symmetry in Everyday Objects

#### 6. Symmetry Hunt

Look around your room or classroom. List three objects that are symmetrical and describe the type of symmetry (vertical, horizontal, or both):

- Object 1: \_\_\_\_\_ (Type: \_\_\_\_\_)
- Object 2: \_\_\_\_\_ (Type: \_\_\_\_\_)
- Object 3: \_\_\_\_\_ (Type: \_\_\_\_\_)

**7. Match the Symmetrical Objects**

Draw a line to match each object on the left to its symmetrical pair on the right:

Object	Symmetrical Pair
Butterfly wing	A. Clock face
Leaf	B. Mirror image of the leaf
Snowflake	C. Geometric tile pattern

**Part 5: Creative Symmetry Activity**

**8. Design Your Own Symmetrical Drawing**

Draw your own symmetrical design or shape. Make sure it has at least one line of symmetry:

[Empty box with a vertical guideline]

**9. Reflective Drawing on Grid Paper**

Below are shapes on a grid. Draw their mirror images on the other side of the dotted line:

! [Grid with one side of shapes such as a heart, arrow, or T-shape]

**Bonus Question:**

Explain why some shapes, like a parallelogram, do not have a line of symmetry even though they look balanced.

**—- BE CHAMPION—-**