

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

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Symmetry & Reflections Worksheet (Intermediate Level) Name: Date:				
nstructions: Complete each section thoughtfully and check your work as you go.				
Part 1	: Analyzing Symmetry			
1.	Lines of Symmetry Count			
	Write how many lines of symmetry each shape has:			
	Pentagon:			
	Hexagon:			
	Equilateral triangle: Partition acts assistance.			
2	Regular octagon: Prove All Booking Lines of Symmetry			
۷.	Draw All Possible Lines of Symmetry Draw all the lines of symmetry on the shapes below:			
	 A hexagon 			
	A regular pentagon			
Part 2	2: Symmetry in Real Life			
3.	Symmetry Check			
	Write True or False for each statement:			
	A butterfly has horizontal symmetry			
	A tree always has vertical symmetry			
	A soccer ball has more than one line of symmetry			
	A pencil has symmetry when viewed from the side			
4.	Identify Symmetrical Objects			
	Circle the objects that have symmetry:			



- Scissors
- o Chair
- Clock
- Triangle flag
- Spoon

Part 3: Drawing and Completing

5. Complete the Symmetrical Drawing

The right half of a design is shown below. Complete the left half to make it symmetrical:

![Half of a design, such as a flower or geometric pattern]

6. Mirror Image Drawing

Draw the mirror image of the shapes across the vertical line: ![Two shapes (e.g., a triangle and a star) placed next to a vertical line]

Part 4: Reflections on Grid Paper

7. Draw Reflected Shapes

Draw the reflection of each shape shown below over the dotted line: [Grid with simple shapes like rectangles and L-shapes on one side]

8. Choose the Correct Reflection

Circle the shape that shows the correct reflection of the original: ![An original shape with three possible mirror images, only one correct]

Part 5: Symmetry in Nature and Art

9. Examples from Nature

List 2 examples of symmetry you find in nature and describe their type of symmetry (vertical, horizontal, or both):

С	Example 1:	(Type:)	
0	Example 2:	(Type:)	

10. Create Your Own Symmetrical Design

Draw a unique pattern or shape in the space below and ensure it has at least one



ine of symmetry:
Box with a vertical line down the center]

Challenge:

Fold a piece of paper in half and cut out a shape along the fold. Open the paper to reveal your symmetrical design!

Excellent job! Review your answers and discuss your findings with a friend or teacher.

— BE CHAMPION—