

Grade 4 Math Worksheet: Understanding Shapes (Difficulty Level: Advanced)

Name: _____

Date: _____

Section 1: Shape Identification

1. Identify each shape as "Polygon" or "Non-Polygon" (for 2D shapes) or "Prism" or "Non-Prism" (for 3D shapes):

Shape	Classification
Hexagon	
Sphere	
Rectangular Prism	
Circle	
Cylinder	
Cube	

Section 2: Analyzing Shape Properties

1. Complete the Table:

Shape	Faces	Edges	Vertices
Square Pyramid			
Cylinder			
Sphere			
Cube			

2. Answer the Following:

- Which shape has the most faces? _____
 - Which shape has only one face? _____
 - Why do you think cubes stack better than cones?
-

Section 3: Shape Comparisons

1. Complete the Sentences:

- A **sphere** has _____ surface and no _____.
- A **cube** has _____ equal faces, all of which are _____.

2. Similarities and Differences:

- **Cone and Pyramid:**

- Similarity: _____
 - Difference: _____
-

Section 4: Real-Life Connections

1. Real-World Matching:

Shape	Real-Life Example
Cube	a) Dice
Cylinder	b) Soda can
Sphere	c) Basketball
Pyramid	d) Egyptian monument

2.

Practical Uses:

- Why are **cylinders** often used for cans?
 - What are some advantages of the **pyramid** shape in construction?
-

Section 5: Drawing Shapes

1. Draw the Following:

- Draw a **pyramid** with a square base and label its vertices and edges.
- Draw a **cylinder** and show its two circular faces.

--BE THE CHAMPION!--