

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

Name: _____

Date: _____

Section 1: Shape Classification

1. Identify each shape as "2D" or "3D":

Shape	Classification
Hexagon	
Rectangular Prism	
Cube	
Cone	
Circle	
Sphere	
Triangle	
Cylinder	

2. For each shape, write if it has straight sides, curved surfaces, or both.

Section 2: Counting Properties

1. Complete the table by counting the number of faces, edges, and vertices for each shape:

Shape	Faces	Edges	Vertices
Cube			

Triangular Prism			
Sphere			
Cone			
Square Pyramid			

2. Answer the following questions:

- Which shape has no vertices? _____
 - Which shape has five faces? _____
 - Which two shapes have only flat surfaces? _____
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Section 3: Comparing Shapes

1. Complete the sentences:

- A **triangle** and a **triangular prism** are different because a triangle is _____ while a triangular prism is _____.
- A **cylinder** has _____ circular faces, while a **cone** has _____ circular face.
- A **cube** and a **rectangular prism** both have _____ faces, but a cube has _____ equal faces.

2. True or False?

- All 3D shapes have vertices. _____
 - A square pyramid has a square base. _____
 - A sphere has one face and no edges. _____
 - A cone can roll. _____
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Section 4: Shapes in Real Life

1. List real-world objects that match each shape:

- Sphere: _____
- Cube: _____
- Cone: _____
- Cylinder: _____

- Triangular Prism: _____
2. **Describe the 3D shape that best represents each of the following:**
- A box of cereal: _____
 - A party hat: _____
 - A basketball: _____
 - A tent with a triangular base: _____
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Section 5: Drawing and Visualizing Shapes

1. **Draw and Label:**
- Draw a **triangular prism** and label its faces, edges, and vertices.
 - Draw a **cylinder** and show its two circular faces and curved surface.
 - Draw a **sphere** and describe its unique properties.
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--BE THE CHAMPION!--