

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
Pentagon	
Sphere	
Cylinder	
Rectangle	
Triangular Prism	
Cube	

2. Describe the sides/surfaces of each shape:

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

Section 2: Counting Properties

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

Shape	Faces	Edges	Vertices
Rectangular Prism			
Square Pyramid			

Cylinder			
Sphere			
Cone			

Answer the following questions:

1. Which shape has no edges or vertices? _____
 2. Which shape has six faces? _____
 3. Name two shapes with only flat surfaces. _____
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Section 3: Comparing Shapes

1. Complete the sentences:

- A square and a cube are different because a square is _____ while a cube is _____.
- A cone has _____ circular face(s), while a cylinder has _____ circular face(s).
- A sphere has _____ face(s), _____ edges, and _____ vertices.

2. True or False:

- A rectangular prism has eight vertices. _____
 - All 3D shapes have flat surfaces. _____
 - A cone has one vertex. _____
 - A cube has six equal faces. _____
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Section 4: Shapes in Real Life

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

Shape	Example Object
Cube	
Sphere	
Cone	

Cylinder	
Rectangular Prism	

2. Describe the 3D shape for each object:

- A water bottle: _____
 - A traffic cone: _____
 - A soccer ball: _____
 - A roof with triangular sides: _____
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Section 5: Drawing and Visualizing Shapes

1. Draw the following shapes:

- A rectangular prism. Label its faces, edges, and vertices.
 - A cone. Show its curved surface and circular base.
 - A cylinder. Indicate its two circular faces and curved side.
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--BE THE CHAMPION!--