

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

Name: Date:	_		

# **Section 1: Identifying and Describing Shapes**

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

Shape	Classificati on	Key Properties (edges, faces, vertices)
Triangle		
Cylinder		
Octagon		
Sphere		
Cube		
Square Pyramid		

### **Section 2: Shape Properties and Analysis**

#### 1. Fill in the Table:

Shape	Face s	Edge s	Vertice s
Cone			
Cube			
Triangular Prism			
Cylinder			



				1	1			
Sphere								
				1				
2.								
Ans	wer th	ne Ques	stions:					
(	• Which shape has the fewest faces?							
(	<ul> <li>Which shape has no vertices or edges?</li> </ul>							
(	<ul> <li>Describe how a pyramid and a cube differ in their vertices.</li> </ul>							
	'	-	nparisontences		elationshi	ips		
	•				circular fac	es and one	<b>.</b>	surface.
		_			ıal square f			_
		and Co		<u> </u>	•		<i>,</i>	
(	Des	scribe o	ne simila	arity and c	ne differen	ce betweer	n a <b>cylinder</b> a	and a
	con	ie.		•				

# Section 4: Applying Shapes to the Real World

#### 1. **Match the Shapes:**

Shape	Real-Life Example
Cone	a) Party hat
Sphere	b) Beach ball
Cylinder	c) Soup can
Rectangular Prism	d) Book
Pyramid	e) Roof of a tent

2.

#### **Shape Selection:**

- Why is a **cone** shape useful for party hats?
- Why are **cylindrical** shapes commonly used for storing liquids?



# **Section 5: Drawing and Exploring Shapes**

- 1. Draw and Label:
  - o Draw a **triangular prism** and label its edges and vertices.
  - o Draw a **cone** and show its curved surface and circular base.

--BE THE CHAMPION!--