

Introduction to 3D Shapes and Nets

Name: _____ Date: _____

Part A: Identify the 3D Shapes

Write the name of each 3D shape described below.

- 1. A shape with 6 square faces, 12 edges, and 8 vertices.
Answer: _____
- 2. A shape with 1 circular base, 1 vertex, and 1 curved surface.
Answer: _____
- 3. A shape with 2 circular faces and 1 curved surface.
Answer: _____
- 4. A shape with 1 square base, 4 triangular faces, and 5 vertices.
Answer: _____
- 5. A shape with 2 triangular bases and 3 rectangular faces.
Answer: _____

Part B: Properties of 3D Shapes

Complete the table below.

Shape	Faces	Edges	Vertices
Cube	_____	_____	_____
Rectangular Prism	_____	_____	_____
Triangular Prism	_____	_____	_____
Square Pyramid	_____	_____	_____

Part C: Matching Nets to 3D Shapes

Match each net description to the 3D shape it would form. Write the letter in the box.

Nets:

- A. Six connected squares
- B. One square with four triangles attached to each side
- C. Two triangles with three rectangles between them
- D. Two circles with a rectangle that wraps around

3D Shapes:

- 1. Cube
- 2. Cylinder
- 3. Square Pyramid
- 4. Triangular Prism

Part D: Challenge Question

Explain why a sphere does not have a net.
