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.