

Chapter 3 Three Dimensional Objects and Nets

Worksheet C Mixed Practice and Application

Name: _____ Grade: _____ Date: _____

1. Explain the Mistake

A student says:

“A cylinder is a prism because it has two matching bases.”

Explain the mistake.

2. Circle vs Sphere

A student says:

“A sphere is just a circle.”

Explain why this is wrong.

3. Cone vs Pyramid

A cone and a pyramid both have an apex.

a. What does apex mean?

b. What is one important difference between a cone and a pyramid?

4. Net Reasoning

A student draws 6 squares in one long row and says it is a cube net.

Explain why that may not fold into a cube.

5. Real Object Classification

Name the solid that best matches each object.

a. a soup can

b. a shoebox

c. a soccer ball

d. a party hat

e. a Toblerone-style package

6. Height Trap

A cone has a vertical height and a slant height.

a. Which one goes straight from the apex to the centre of the base?

b. Which one lies along the outside surface?

c. Why is it important not to mix them up?

7. Surface Area Preparation

Why are nets useful before learning surface area?

Answer in a complete sentence.