UNIT 5 · STANDARD 6.GR.4

Determine Surface Area of Pyramids

Lesson 5-8

Name: Type your name **Date:** Today's date **Class:** Class period

My Notes Level 2 Standard

🎯 **TODAY'S OBJECTIVES**

Content Objective: I can find the surface area of a pyramid by adding the base area and the lateral faces.

Language Objective: I can explain my work using the words pyramid, slant height, lateral face, and base.

📖 See **Learn It** for the explanation and worked examples, and the **Vocab** tab for the words. These are your notes to fill in and keep.

✏️ **Fill in each blank as we go. Use the Word Bank to help you.**

📚 **WORD BANK — FILL EACH BLANK WITH THE BEST WORD**

Surface Area of Pyramids | Pyramid | Slant height | Lateral face | Base | Apex | Lateral area

☝️ *Tap any word to see what it means and a picture.*

1. The total area of a pyramid's faces, found with SA = B + lateral area, is the _____.

2. A solid with a polygon base and triangular faces meeting at one point is a _____.

3. The height of a triangular face of a pyramid, measured along the slanted side, is the _____.

4. A triangular side face of a pyramid is a _____.

5. The polygon on the bottom of a pyramid is the _____.

6 The single top point where the triangular faces of a pyramid meet is the _____ .

7 The combined area of all the side faces, not counting the base, is the _____ .

Write About the Math

How much will the glass for all 4 triangular sides cost? (The base is open — no glass needed.)?
¿Cuánto costará el vidrio de los 4 lados triangulares? (La base está abierta — no necesita vidrio.)?

Say your answer to a partner first. Then write it, using at least two of these words:

- ☐ **Surface Area of Pyramids**
  Área de superficie de pirámides
- ☐ **Pyramid**
  Pirámide
- ☐ **Slant height**
  Altura inclinada (apotema)
- ☐ **Lateral face**
  Cara lateral
- ☐ **Base**
  Base

Model: *Surface area of a pyramid is the base area plus the areas of all the triangular lateral faces.* — Students explain a square pyramid's surface area = base area + the four triangular lateral faces, and that you add every face together.

Start

Complete the frames. Use the word bank.
Completa las oraciones. Usa el banco de palabras.

- **Each triangular face has area = ½ × ____ × ____ = ____ ft². Four faces: 4 × ____ = ____ ft². Cost: ____ × $12 = $____.**
- **My answer is ____ because ____.**
  Mi respuesta es ____ porque ____.

Build

Write two connected sentences. Use because, so, or but.
Escribe dos oraciones conectadas. Usa porque, entonces o pero.

- **My claim is ____.**
  Mi afirmación es ____.

- **My evidence is ____, so ____.**
  Mi evidencia es ____, entonces ____.

Explain

Write a claim, give math evidence, and explain your reasoning.

Escribe una afirmación, da evidencia matemática y explica tu razonamiento.

- [ ] I answered the question.
- [ ] I used math evidence: numbers, an equation, or a model.
- [ ] I used at least two math words.