Name_____ Date_____ Period_____

LESSON 5-8 · SESSION 2 · PREREQUISITE PRACTICE A · SKILL 1 OF 2

Count Faces of a Pyramid

Builds on Grade 2 · 2.G.A.1

TODAY'S LESSON	You will find lateral area: only the slanted faces, like the 3 faces of Maria's frame.
YOU NEED TO	Count a pyramid's slanted faces from its base. **You will use it in Practice Form A, problems 2 and 3.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Name** the base shape.
2. **Count** its sides. That is the number of slanted faces.
3. **Add** 1 for the base to get all the faces.

WATCH ME

the steps in action

An octagonal pyramid: how many slanted faces? How many faces in all?

Step 1 Base: octagon.

Step 2 8 sides, so 8 slanted faces.

Step 3 8 + 1 = 9.

Answer **8 slanted faces; 9 faces in all**

TRY IT WITH HELP

fill in each step

1. A square pyramid: how many slanted faces? How many faces in all?

Step 1 Base: _____

Step 2 Slanted faces: _____

Step 3 4 + 1 = _____ faces

2. A pentagonal pyramid: how many slanted faces? How many faces in all?

Step 1 Base: _____

Step 2 Slanted faces: _____

Step 3 5 + 1 = _____ faces

YOUR TURN

use the steps on your own

3. Write the slanted faces, then all the faces.

a. triangular pyramid _____

b. hexagonal pyramid _____

c. rectangular pyramid _____

d. decagonal pyramid (10 sides) _____

Subtract to Find a Part

Builds on Grade 4 · 4.NBT.B.4

TODAY'S LESSON	You will take away the base: lateral area = surface area − base, like 150 − 36.
YOU NEED TO	Find the missing part: total − known part. **You will use it in Practice Form A, problem 1.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** the total and the part you know.
2. **Subtract**: total − known part.
3. **Check**: add the two parts to get the total.

WATCH ME

the steps in action

A total of 530 cm² includes a 289 cm² base. Find the rest.

Step 1 Total 530, known part 289.

Step 2 530 − 289 = 241.

Step 3 241 + 289 = 530. It checks.

Answer **241 cm²**

TRY IT WITH HELP

fill in each step

4. A total of 340 cm² includes a 100 cm² base. Find the rest.

Step 1 Total _____, known part _____

Step 2 340 − 100 = _____

Step 3 240 + 100 = _____

5. A total of 725 cm² includes a 361 cm² base. Find the rest.

Step 1 Total _____, known part _____

Step 2 725 − 361 = _____

Step 3 364 + 361 = _____

YOUR TURN

use the steps on your own

6. Subtract.

a. 85 − 36 = _____ **b.** 120 − 64 = _____ **c.** 300 − 144 = _____

d. 250 − 81 = _____ **e.** 400 − 225 = _____ **f.** 1,000 − 361 = _____

READY CHECK

a problem like the one in today's lesson

7. A pyramid's surface area is 360 cm². Its base is 144 cm². What is its lateral area?

A 504 cm² **B** 216 cm² **C** 144 cm² **D** 54 cm²

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____