Name_____ Date_____ Period_____

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

Multiply Equal Face Areas

Builds on Grade 4 · 4.NBT.B.5

TODAY'S LESSON	You will find the 4 equal triangles of a square pyramid, like 4 × (½ × 8 × 11) for the gift topper.
YOU NEED TO	Multiply one face by 4, like 4 × 24. **You will use it in Practice Form A, problems 3, 4, and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** the area of one face.
2. **Double** it.
3. **Double** again. That is 4 times the face.

WATCH ME

the steps in action

Four equal faces are each 24 in². Find their total area.

Step 1 One face: 24 in².

Step 2 Double 24 is 48.

Step 3 Double 48 is 96.

Answer **96 in²**

TRY IT WITH HELP

fill in each step

1. Four equal faces are each 35 cm². Find their total area.

Step 1 One face: _____ cm²

Step 2 Double 35 is _____

Step 3 Double 70 is _____ cm²

2. Four equal faces are each 18 m². Find their total area.

Step 1 One face: _____ m²

Step 2 Double 18 is _____

Step 3 Double 36 is _____ m²

YOUR TURN

use the steps on your own

3. Multiply.

a. 4 × 12 = _____ **b.** 4 × 25 = _____ **c.** 4 × 45 = _____

d. 4 × 16 = _____ **e.** 4 × 60 = _____ **f.** 4 × 75 = _____

Area of a Square Base

Builds on Grade 4 · 4.MD.A.3

TODAY'S LESSON	You will find a pyramid's square base, like 16 cm × 16 cm.
YOU NEED TO	Find a square's area: side × side, like 19 × 19. **You will use it in Practice Form A, problems 2, 4, and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Break** the side into tens and ones.
2. **Multiply** each part by the side.
3. **Add** the parts. Write square units.

WATCH ME

the steps in action

A square base is 19 cm on each side. Find its area.

Step 1 19 = 10 + 9.

Step 2 10 × 19 = 190 and 9 × 19 = 171.

Step 3 190 + 171 = 361, so 361 cm².

Answer **361 cm²**

TRY IT WITH HELP

fill in each step

4. A square base is 13 in on each side. Find its area.

Step 1 13 = 10 + _____

Step 2 10 × 13 = _____ and 3 × 13 = _____

Step 3 130 + 39 = _____ in²

5. A square base is 15 ft on each side. Find its area.

Step 1 15 = 10 + _____

Step 2 10 × 15 = _____ and 5 × 15 = _____

Step 3 150 + 75 = _____ ft²

YOUR TURN

use the steps on your own

6. Find each square's area.

a. 12 × 12 = _____ **b.** 14 × 14 = _____ **c.** 17 × 17 = _____

d. 18 × 18 = _____ **e.** 21 × 21 = _____ **f.** 25 × 25 = _____

READY CHECK

a problem like the one in today's lesson

7. A square pyramid has a 10 cm base. Each triangle is 35 cm². What is its surface area?

A 35 cm² **B** 135 cm² **C** 140 cm² **D** 240 cm²

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