Name _____ Date _____ Period _____

LESSON 5-8 · WARM-UP

Warm-Up Practice

Determine Surface Area of Pyramids

THE MOVE

what this page practices

One face's area × the number of identical faces

Find the area of one face, then multiply by the number of identical faces.

Use the slant height for a face, not the vertical height

A triangular face uses the slant height along that face, not the vertical height inside the pyramid.

WORKED MODEL

we do this one together

Step 1	A square pyramid has a base 6 in on each side and a slant height of 8 in.
Step 2	One triangular face: 1/2 × 6 × 8 = _____ square inches
Step 3	4 identical faces: 4 × 24 = _____ square inches
Step 4	The vertical height is not used. The _____ height is.

YOUR TURN

8 items · about 10 minutes

1. Square pyramid: base side 10 cm, slant height 6 cm. All 4 triangular faces = _____
ANSWER _____

2. Square pyramid: base side 8 in, slant height 5 in. All 4 triangular faces = _____
ANSWER _____

3. One triangular face is 18 square meters. A square pyramid has 4 identical faces. All 4 = _____
ANSWER _____

4. Triangular pyramid: 3 identical faces, each base 6 ft and slant height 4 ft. All 3 = _____
ANSWER _____

5. Square pyramid: base side 9 in, slant height 12 in, vertical height 10 in. One triangular face = _____
ANSWER _____

6. A square pyramid has a base 7 m on each side. Base area = _____
ANSWER _____

7. The 4 identical faces of a square pyramid cover 100 square cm in all. One face = _____
ANSWER _____

8. Square pyramid: base side 6 in, slant height 5 in, vertical height 4 in. Find the base area, the area of the 4 faces, then the surface area. _____
ANSWER _____