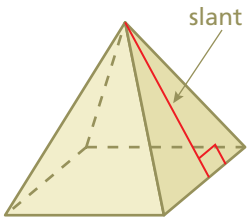
REVIEW: Surface Areas of Pyramids

Name _____

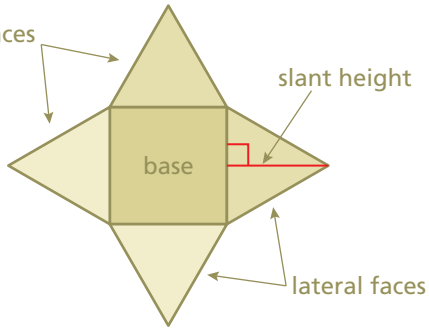
Key Concept and Vocabulary



S = Base Area + Lateral Area

Visual Model

Net for a Square Pyramid



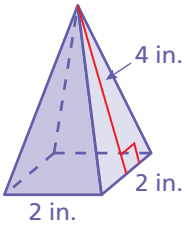
Skill Example

1. S = Base Area + Lateral Area

$= (2 \cdot 2) + 4\left(\frac{1}{2} \cdot 2 \cdot 4\right)$

$= 4 + 16$

$= 20 \text{ in.}^2$

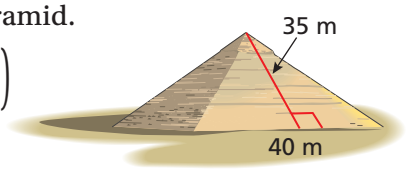


Application Example

2. Find the lateral surface area of the square pyramid.

$S = 4\left(\frac{1}{2} \cdot 40 \cdot 35\right)$

$= 2800$



∴ The lateral surface area is 2800 square meters.

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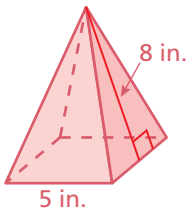
Check your answers at BigIdeasMath.com.

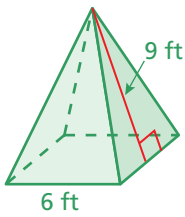
Find the surface area of the regular pyramid.

3.



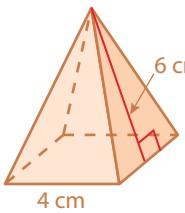
$S =$ _____

4.



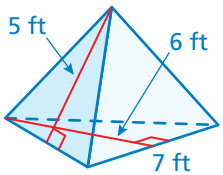
$S =$ _____

5.



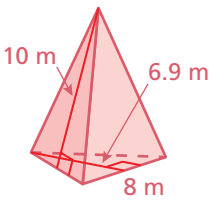
$S =$ _____

6.



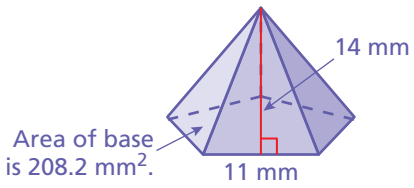
$S =$ _____

7.



$S =$ _____

8.



$S =$ _____

9. ROOF A roof in the shape of a square pyramid is covered with shingles. The roof has a slant height of 14 feet and a base with side lengths of 22 feet. The shingles cost $0.80 per square foot. How much does it cost to buy enough shingles to cover the roof? _____