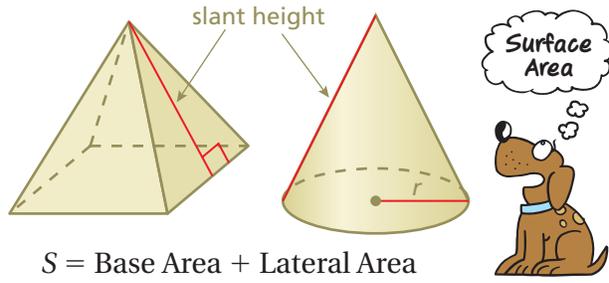


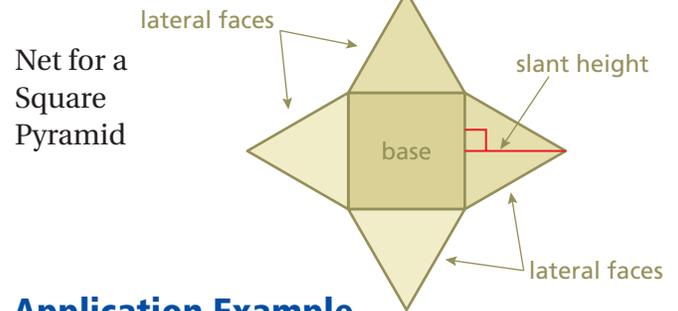
REVIEW: Surface Areas of Pyramids and Cones

Name _____

Key Concept and Vocabulary



Visual Model



Skill Example

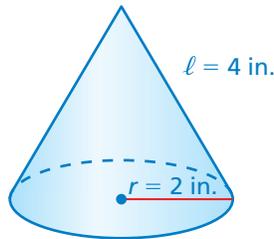
1.

Cone

$$S = \pi r^2 + \pi r \ell$$

$$= \pi \cdot 2^2 + \pi \cdot 2 \cdot 4$$

$$= 12\pi \text{ in.}^2$$

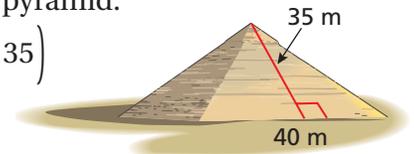


Application Example

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

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

$$= 2800 \text{ m}^2$$



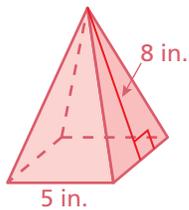
The area is 2800 square meters.

PRACTICE MAKES PURR-FECT™

Check your answers at BigIdeasMath.com.

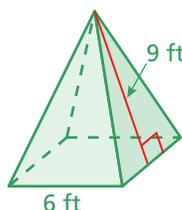
Find the surface area of the pyramid or cone.

3. Square Pyramid



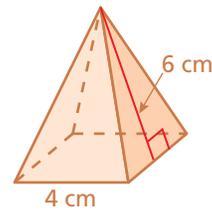
$$S = \underline{105 \text{ in.}^2}$$

4. Square Pyramid



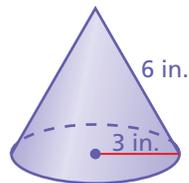
$$S = \underline{144 \text{ ft}^2}$$

5. Square Pyramid



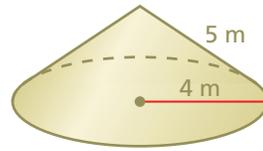
$$S = \underline{64 \text{ cm}^2}$$

6. Cone



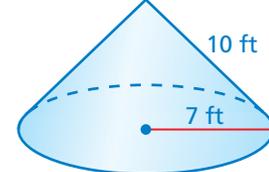
$$S = \underline{27\pi \text{ in.}^2}$$

7. Cone



$$S = \underline{36\pi \text{ m}^2}$$

8. Cone



$$S = \underline{119\pi \text{ ft}^2}$$

9. **VOLCANO** Find the lateral surface area of the volcano.

Use 3.14 for π . Round your answer to the nearest hundred square feet. $\underline{10,990,000 \text{ ft}^2}$

10. **VOLCANO** Find the area of the circular region covered by the base of the volcano. Use 3.14 for π . Round your answer to the nearest hundred square feet. $\underline{9,616,300 \text{ ft}^2}$

