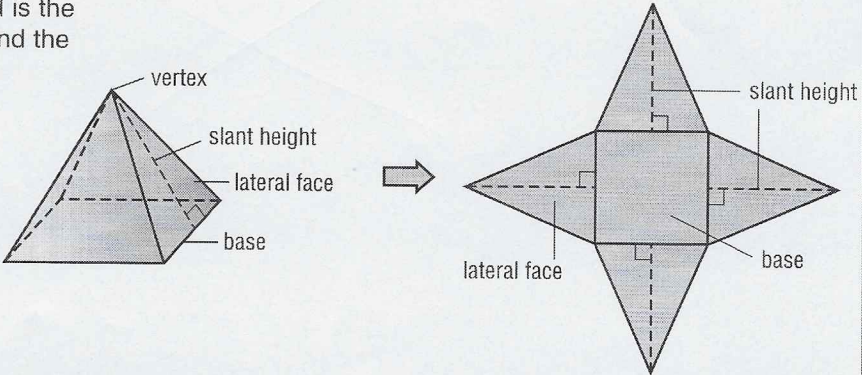


Lesson 5 Reteach

Surface Area of Pyramids

Words	Model
<p>The surface area of a pyramid is the sum of the area of the base and the areas of the lateral faces.</p>	

Example 1

Find the surface area of the pyramid.

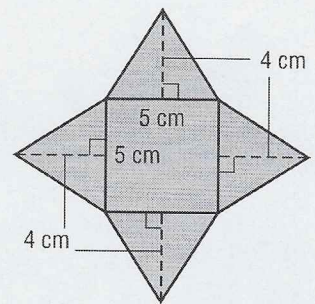
Use a net to find the area of each face and then add.

area of the base: $5(5) = 25$

area of each triangular side: $\frac{1}{2}(5)(7) = 17.5$

Add to find the surface area.

$25 + 17.5 + 17.5 + 17.5 + 17.5 = 95$ square centimeters



Example 2

Find the surface area of the pyramid.

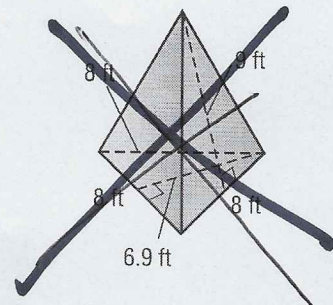
Find the area of each face and then add. The triangular base is an equilateral triangle because all three sides are 8 feet long.

area of the base: $\frac{1}{2}(8)(6.9) = 27.6$

area of each lateral face: $\frac{1}{2}(8)(9) = 36$

Add to find the surface area.

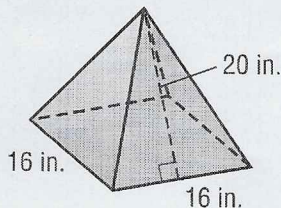
$27.6 + 36 + 36 + 36 = 135.6$ square feet



Exercises

Simplify each expression. Justify each step.

1.



2.

