LESSON 9-6

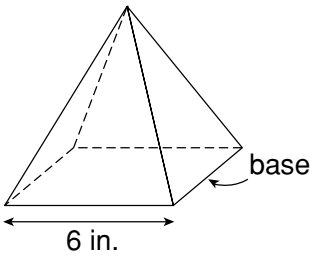
Reading Strategies

Reading a Table

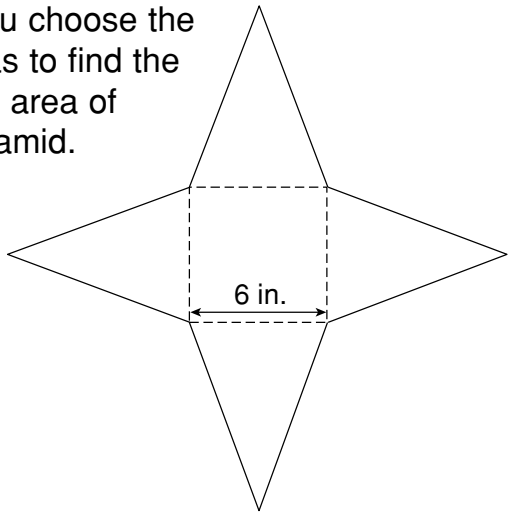
The formulas below can help you find the surface area of various figures.

Formulas for Finding the Areas of Polygons	
Rectangle	$A = \ell \cdot w$ ← length • width
Square	$A = s^2$ ← side squared, or side • side
Triangle	$A = \frac{1}{2}(b \cdot h)$ ← $\frac{1}{2}$ of base • height

The **surface area** of a pyramid is the sum of the areas of all the faces.



You can use a net to help you choose the formulas to find the surface area of the pyramid.



1. Which formula from the table would you choose to find the area of the base?

$A = s^2$ or $A = \ell \cdot w$

2. One side of the base is 6 inches long. Use this measure to rewrite the formula for the base and compute its area.

$A = s^2$; $A = 6^2$; $A = 36$ square units

3. How many faces of the pyramid are made up of triangles? 4

4. Which formula above will you choose to find the area of each triangle?

$A = \frac{1}{2}(b \cdot h)$

5. The height of each triangle is 8 inches. The base is 6 inches. Rewrite the formula with these values.

$A = \frac{1}{2}(6 \cdot 8)$

6. Find the area for one triangle.

$A = \frac{1}{2}(6 \cdot 8)$; $A = 24$ in^2

7. Find the surface area for all 4 triangles.

$4 \cdot 24 = 96$ in^2

8. Combine the area of the base and the four triangles. What is the surface area of the pyramid?

$36 + 96 = 132$ in^2

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