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LESSON

## 15-1

Nets and Surface Area

## Reteach



To find the surface area of the regular triangular prism above, first find the area of each face or base.

2 congruent triangular bases

$A=I w$
$A=\frac{1}{2} b h$
$=\frac{1}{2}(6 \cdot 4)$ $=(9 \bullet 6)$
$=54$ square units
$A=I w$
$=(9 \cdot 5)$
$=45$ square units

Then, find the sum of all of the faces of the prism.
$S A=12+12+54+45+45$
$=168$ square units
The same procedure can be used to find the surface area of a pyramid.
The areas of the faces are added to the area of the base to give the total surface area.

## Solve each problem.

1. A prism has isosceles triangle bases with leg lengths of 5 inches, 5 inches, and 8 inches, and a height of 3 inches. The distance between the bases is 12 inches. Find the surface area. Show your work.
2. A square pyramid has a base edge of 1 meter. The height of each triangular face is 1 meter. What is the pyramid's surface area? Show your work.
