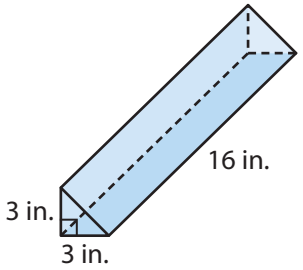
Guided Practice

1. Find the volume of the triangular prism. (Example 1)



Find the area of the base of the prism.

Use the equation $A =$ _____ bh.

$A =$ ____ (____) (____) = ____ in^2

Find the volume of the prism. Use the equation $V = Bh$.

$V = \left(\text{____}\right)$ (____) = ____ in^3

2. A triangular pyramid and a triangular prism have congruent bases and the same height. The triangular pyramid has a volume of 90 m^3. Find the volume of the prism. (Explore Activity)

The volume of the prism is _____ because the volume of the prism

is _____ times the volume of the pyramid.

3. In Exercise 2, how much greater is the volume of the prism than the volume of the pyramid? (Example 2)

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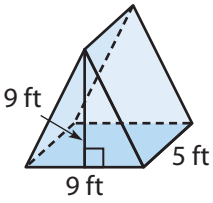
Find the volume of each figure.

4.



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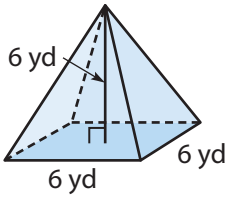
5.



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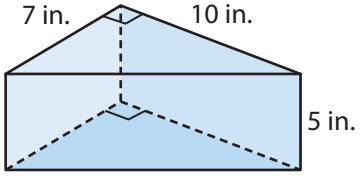
6.



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ESSENTIAL QUESTION CHECK-IN

7. A pyramid has a base that is a triangle. The length of the base of the triangle is 5 meters, and the height of the triangle is 12 meters. The height of the pyramid is 10 meters. How would you explain to a friend how to find the volume of the pyramid?

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