**Lesson 2 Reteach**

***Volume of Cones***

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| A **cone** is a three-dimensional shape with one circular base.The volume *V* of a cone with radius *r* is one third the area of the base *B* times the height *h*.*V =* $\frac{1}{3}$*Bh* or *V* = $\frac{1}{3}$*πr*2*h* |

**Example**

**Determine the volume of the cone. Round to the nearest tenth.**



 *V =* $\frac{1}{3}$*πr2h* Volume of a cone

*V =* $\frac{1}{3}$(π • 62 • 12) *r* = 6 and *h* = 12

 *V* ≈ 452.4 Simplify.

The volume is about 452.4 cubic feet.

**Exercises**

**Determine the volume of each cone. Round to the nearest tenth.**

 **1. 2. 3.**







 **4. 5. 6.**





