**Independent Practice:**

Try similar problems on your own. Pay close attention to the details in each of the problems. You will need to decide which resources are needed for problem. You may use a calculator to complete the problems.

1. A concrete pad is being poured with the dimensions of 50 feet long, 16 feet wide, and 12 inches deep.
   1. How many cubic feet of concrete is being poured?
   2. How many cubic inches of concrete is being poured?
   3. How much will the concrete cost if the company charges $50 per cubic yard?
2. A container in the shape of a rectangular prism has a volume of 864 mm3. It has a width of 4 mm and a height of 12 mm. What is the length of the container?
3. A right triangular prism has sides that are 8 inches, 15 inches, and 17 inches long. It has a height of 20 inches. What is the volume of the prism in cubic inches?
4. A tent in the shape of a triangular prism has a length of 4 feet. The front and rear tent flaps are shaped like triangles, each with a base of 3 feet, a height of 2 feet, and two side lengths of 2.5 feet. What is the volume of the tent?
5. A square pyramid has a base with side lengths of 12 centimeters and a height of 8 centimeters.
   1. What is the volume of the pyramid?
   2. What is the volume of a rectangular prims with the same dimensions?
6. A pyramid has a volume of 128 in3. The height is 6 inches. What is the length of each side of the base?