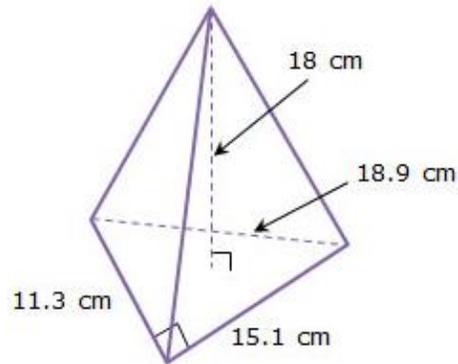## Possible Solution

The dimensions of a triangular pyramid are shown in the diagram. What is the volume of the triangular pyramid in cubic centimeters?

18 cm

18.9 cm

11.3 cm

15.1 cm

- To find the volume of the pyramid, use the formula, $V = \frac{1}{3}Bh$.
- First, the B, or the base of the pyramid, needs to be determined. To determine this, use $B = \frac{1}{2}bh$ of the base triangle which becomes $\frac{1}{2}$ (15.1)(11.8). When multiplied together, this becomes B = 85.315.
- Now use the formula, $V = \frac{1}{3}Bh$ to determine the volume of the pyramid. V = $\frac{1}{3}$(83.315)(18) which equals 511.89.
- The volume of the pyramid is 511.89 cm^3.