# Macintosh HD:Users:Amit:Progs:ExcelerateLive:HTML:ml.png Excelerate Lesson Plan

**Volume**

**About These Problems**

**The volume of a figure is the amount of three-dimensional space it takes. The formula for area is area of the base times height. The only odd figure you will see is a sphere whose volume is 4/3 \* pi \* r3. The area of a cylinder is the area of the circular base multiplied by the height.**

**Question.**  What is volume of a cylinder that has a base of radius 5 and height of 10.

1. Volume = 760
2. Volume = 765
3. Volume = 157
4. Volume = 785
5. Volume = 750

**Answer.** **4**: If the triangle is a right triangle, using the Pythagorean theorem we can deduce that the longest side (hypotenuse) is 10.

52 \*3.14 \* 10 = 785 cubic units.