



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 $\frac{4}{3} * \pi * r^3$. 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.

$$5^2 * 3.14 * 10 = 785 \text{ cubic units.}$$