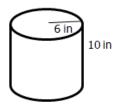
Possible Solutions

The radius of the cylinder shown below is 6 in and the height is 10 in.



Mrs. Smith took a cone with the same radius and the same height as the cylinder. Which of the following is true about the relationship?

- a) It takes the volume of two cones to fill the cylinder.
- b) It takes the volume of three cones to fill the cylinder.
- c) It takes the volume of three cylinders to fill the cone.
- d) There is no relationship between the two figures.
- The formula to find the volume of a cylinder is V = Bh, whereas the formula for a cone with the same base is $V = \frac{1}{3}Bh$.
- The volume of a cone is one-third the volume of a cylinder, meaning it would take the volume of three cones to fill the cylinder so the answer is b) It takes the volume of three cones to fill the cylinder.