

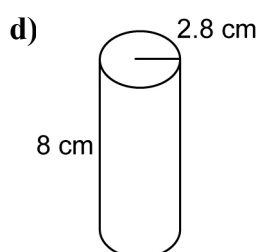
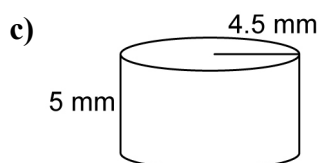
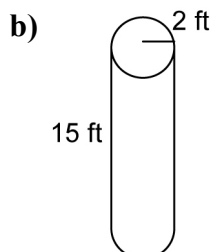
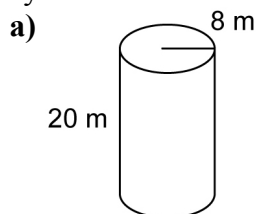
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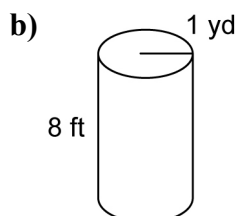
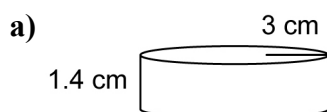
BLM 9.3.1

Practice: Surface Area and Volume of Cylinders

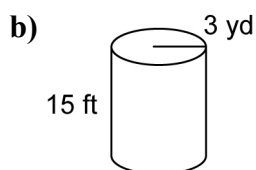
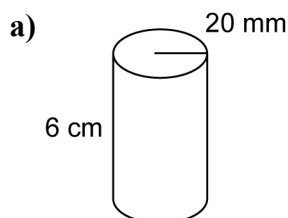
1. Find the surface area and volume of each cylinder.



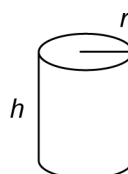
2. Find the surface area of each cylinder.



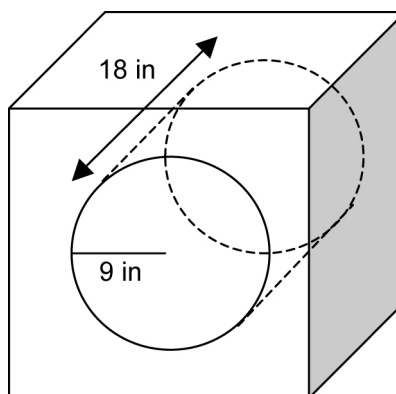
3. Find the volume of each cylinder.



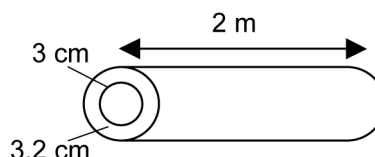
4. Explain how each change affects the volume of the cylinder.



- The height of the cylinder is doubled.
 - The radius is doubled.
 - The radius is doubled and the height of the cylinder is decreased by one-half.
 - The height of the cylinder is doubled and the radius is decreased by one-half.
5. The cylindrical drum inside a clothes dryer has radius 9 in. and depth 18 in. Find the volume of the drum.



6. Water flows through a copper pipe 2 m long with an inner radius of 3 cm and an outer radius of 3.2 cm.



- What is the volume of the water that would fill the copper pipe?
- What is the volume of copper used to construct the pipe?