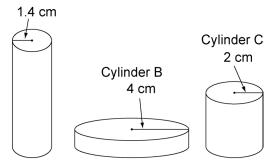
BLM 9.6.1

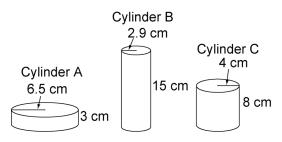
Practice: Minimize the Surface Area of a Cylinder

For all questions, round your answer to the nearest tenth of a unit when necessary.

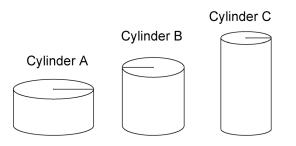
 Each cylinder has volume 50.3 cm³. Cylinder A



- a) Find the height of each cylinder.
- **b)** Find the surface area of each cylinder.
- c) Order the cylinders from least to greatest surface area.
- 2. Each cylinder has volume 402 cm³. Order the cylinders from least to greatest surface area.



3. Each cylinder has the same volume. Order the cylinders from least to greatest surface area.



- **4.** Find the radius and height of the cylinder with minimum surface area, given the volume.
 - **a)** 1500 cm^3 **b)** 400 cm^3
 - **c)** 80 cm^3 **d)** 12 cm^3
 - **e)** 650 cm^3 **f)** 440 cm^3