1) The height and radius of a cylinder are 23 cm and 5 cm respectively. Find the volume of tin 3.

2) Which tin contains more water: Tin 3 or Tin 1?

3) What is the height of tin 3?

4) What is the volume of tin 1?

5) Which tin contains less water: Tin 2 or Tin 3?

6) What is the height of tin 1?

7) Which has a greater height: Tin 1 or Tin 2?

8) What is the volume of tin 3?

9) If tin 3 has increased by a radius of 1 cm. What is the volume?

10) Find the volume of cylinder with radius of 8 cm and a height of 20 cm.
Volume of a Cylinder

Picture below are three cylindrical tins of water. Answer the questions.

1) The height and radius of a cylinder are 23 cm and 5 cm respectively. Find the volume of tin 3.
   \[ V = \pi r^2 h \]
   \[ V = \pi (5 \text{ cm})^2 (23 \text{ cm}) \]
   \[ V = 1805.5 \text{ cm}^3 \]

2) Which tin contains more water: Tin 3 or Tin 1?
   Tin 3

3) What is the height of tin 3?
   23 cm

4) What is the volume of tin 1?
   \[ V = \pi r^2 h \]
   \[ V = \pi (8 \text{ cm})^2 (20 \text{ cm}) \]
   \[ V = 4021.24 \text{ cm}^3 \]

5) Which tin contains less water: Tin 2 or Tin 3?
   Tin 2

6) What is the height of tin 1?
   20 cm

7) Which has a greater height: Tin 1 or Tin 2?
   Tin 2

8) What is the volume of tin 3?
   \[ V = \pi r^2 h \]
   \[ V = \pi (5 \text{ cm})^2 (23 \text{ cm}) \]
   \[ V = 1806.42 \text{ cm}^3 \]

9) If tin 3 has increased by a radius of 1 cm. What is the volume?
   \[ V = \pi r^2 h \]
   \[ V = \pi (6 \text{ cm})^2 (23 \text{ cm}) \]
   \[ V = 2601.24 \text{ cm}^3 \]

10) Find the volume of cylinder with radius of 8 cm and a height of 20 cm.
    \[ V = \pi r^2 h \]
    \[ V = \pi (8 \text{ cm})^2 (20 \text{ cm}) \]
    \[ V = 4021.24 \text{ cm}^3 \]