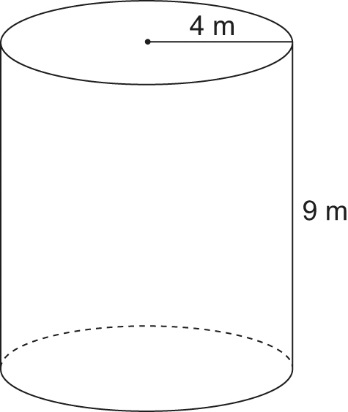
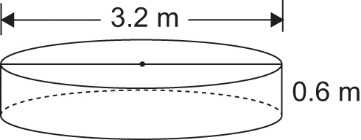
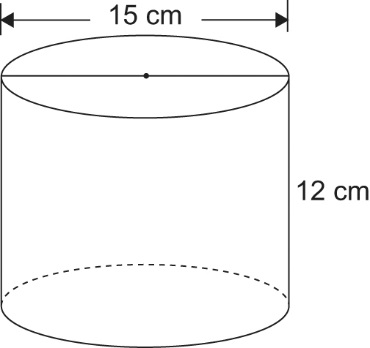
**4.7 Surface Area of a Right Cylinder – Worksheet**

**1.** Calculate the surface area of each cylinder.

 **a)**  **b)**  **c)**

**2.** Find the surface area of a cylinder with the following dimensions:

**a)** height 10 cm, radius 3 cm **b)** height 8 mm, diameter 12 mm

**3.** A cylindrical-shaped building block is to be painted. It has diameter 5.3 cm and height 12 cm.

Calculate the surface area to be painted.

**4.** A cylindrical candle has diameter 9 cm and height 12 cm.

It is placed in a cylindrical box.

There is a space of 0.5 cm between the candle and the box to allow for packing material.

**a)** What is the height of the cylindrical box?

**b)** What is the radius of the cylindrical box?

**c)** What is the surface area of the box?