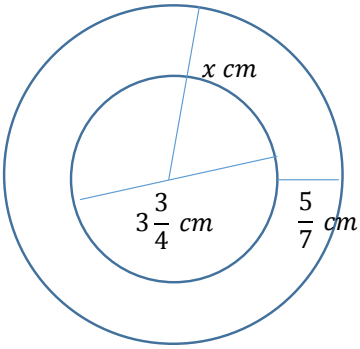
The waterpipe has the inner diameter of3 3/4cm and a wall thickness of 5/7 cm. What is the outer radius of the pipe.

Soution



The inner radius of a pipe is

$$r = \frac{d}{2} = 3\frac{3}{4} \div 2 = \frac{15}{8}\ cm$$

The outer radius of the pipe is:

$$R = r + w = \frac{15}{8} + \frac{5}{7} = \frac{145}{56} = 2\frac{33}{56}\ cm$$

Answer

$$2\frac{33}{56}\ cm$$

The second task requires more input information.