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so many fake sites. this is the first one which worked! Many thanks

## Question 14

An iron pipe is 21 cm long and its exterior diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs  $8g/cm^3$ . Find the weight of the pipe.

**Solution:**

The external radius of the pipe = 4 cm

The internal radius of the pipe =  $(4 - 1)$  cm = 3 cm

The external volume =  $\left(\frac{22}{7} \times 4 \times 4 \times 21\right) cm^3 = 1056 cm^3$

The internal volume =  $\left(\frac{22}{7} \times 3 \times 3 \times 21\right) cm^3 = 594 cm^3$

The volume of the metal = external volume - internal volume

$$= 1056 - 594 cm^3 = 462 cm^3$$

The weight of the pipe =  $462 \times 8$  g

$$= \frac{462 \times 8}{1000} kg = 3.696 kg$$



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