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Cool! I'am really happy

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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



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

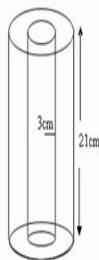
The internal volume = $\left(\frac{22}{7} \times 3 \times 3 \times 21\right) cm^3 = 594 cm^3$

The volume of the metal = external volume - internal volume

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

The weight of the pipe = 462×8 g

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



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