

Answer on Question #48987 – Math – Geometry

Ramu is a gardener who pulls water from underground tank of diameter 7 m to irrigate his garden. If he pulls up 200 buckets of total water, the water level falls down to 10 cm in the tank. What is the capacity of the bucket in litre?

Solution.

$$V = \frac{\pi d^2}{4} h = \frac{\pi * 7^2}{4} * 0.1 = 3.845 m^3 = 3845 l$$

$$\text{Capacity of the bucket : } v = \frac{3845}{200} = 19.25 l \approx 20 l.$$