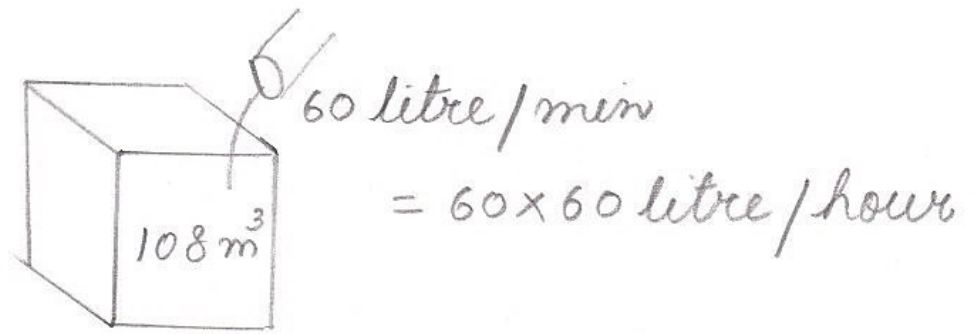


8.



Time required to fill tank

$$= \frac{\text{volume of reservoir}}{\text{rate of fl. per hour}}$$

$$= \frac{108^3 \times 1000}{60 \times 60} \quad [\because 1 \text{ m}^3 = 1000 \text{ l}]$$

$$= 30 \text{ hours}$$