(8) water required per day $= 5000 \times 75$

$= 375000\ l$

$= \frac{375000}{1000}\ m^3$

$= 375\ m^3$

volume of water in tank $= lbh$

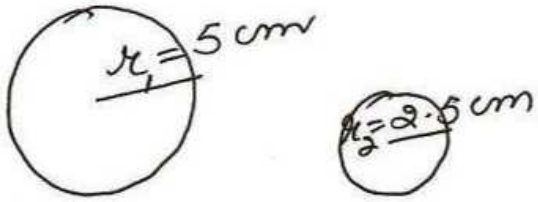
$= 40 \times 25 \times 15$

$= 15000\ m^3$

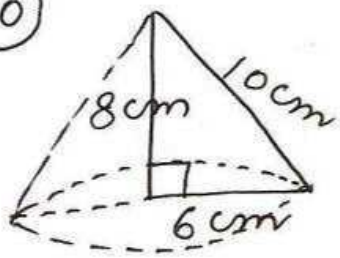
no. of days water lasts $= \frac{15000}{375}$

$= 40$

(9)



(10)



volume $= \frac{1}{3}\pi r^2 h$

$= \frac{1}{3} \times \frac{22}{7} \times 6 \times 6 \times 8$

$= \frac{2112}{7}$

$= 301.71\ cm^3$

CSA $= \pi r l$

$= \frac{22}{7} \times 6 \times 10$

$= \frac{1320}{7}$

$= 188.57\ cm^2$

NCERT Exemplar Problems by Dev Anoop (Bathinda) Ex 13.3 Exemplar Class IX

no. of laddoos

$= \frac{\text{vol. of bigger laddoo}}{\text{vol. of smaller laddoo}}$

$= \frac{\frac{4}{3}\pi r_1^3}{\frac{4}{3}\pi r_2^3}$

$= \frac{5 \times 5 \times 5}{2.5 \times 2.5 \times 2.5}$

$= 2 \times 2 \times 2$

$= 8$