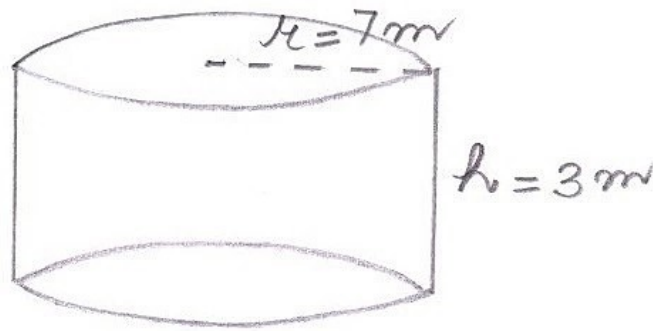
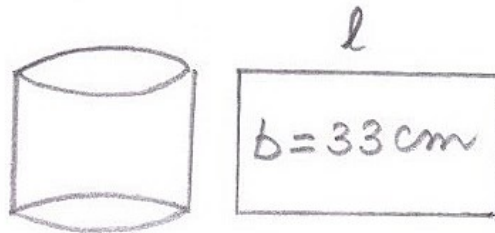


⑦



$$\begin{aligned}
 \text{area of sheet required} &= 2\pi r (r+h) \\
 &= 2 \times \frac{22}{7} \times 7 (3+7) \\
 &= 44 \times 10 \\
 &= 440 \text{ m}^2
 \end{aligned}$$

⑧



$$\begin{aligned}
 \text{l.s.a. of tank} &= \text{area of sheet} \\
 4224 &= lb
 \end{aligned}$$

$$\Rightarrow 33l = 4224$$

$$\Rightarrow l = \frac{4224}{33} = 128$$

$$\Rightarrow l = 128 \text{ cm}$$

$$\begin{aligned}
 \therefore \text{Perimeter of sheet} &= 2(l+b) \\
 &= 2(128+33) \\
 &= 2 \times 161 \\
 &= 322 \text{ cm}
 \end{aligned}$$