



③ base area of cuboid =  $180 \text{ cm}^2$   
 $lb = 180 \dots \textcircled{1}$

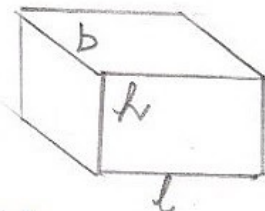
volume of cylinder =  $900 \text{ cm}^3$

$lbh = 900$

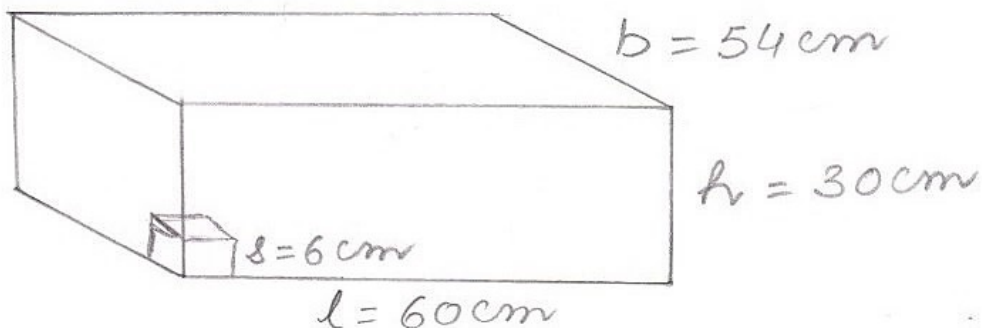
$180h = 900$  (using i)

$\Rightarrow h = \frac{900}{180}$

$= 5 \text{ cm}$



④



no. of cubes that can be placed along  
 length =  $\frac{l}{s} = \frac{60}{6}$   
 $= 10$

no. of cubes that can be placed along  
 breadth =  $\frac{b}{s} = \frac{54}{6}$   
 $= 9$

no. of cubes that can be placed along  
 height =  $\frac{h}{s} = \frac{30}{6}$   
 $= 5$

required no. of cubes =  $10 \times 9 \times 5$   
 $= 450$