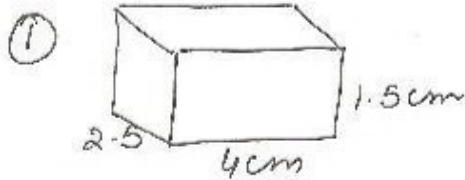


# NCERT Maths Solutions by Dev Anoop (Bathinda)



## Ex 13.5

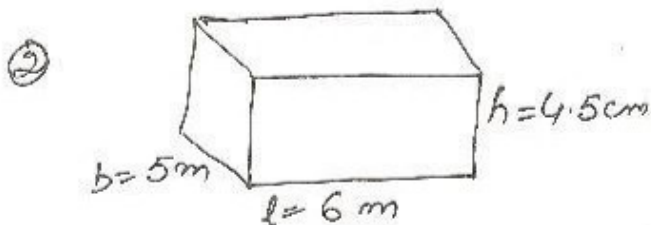


volume of pack with  
12 match boxes

$$= 12 \times lbh$$

$$= 12 \times 4 \times 2.5 \times 1.5$$

$$= 180 \text{ cm}^3$$

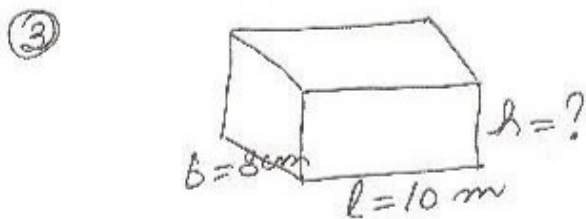


Capacity of tank =  $lbh$

$$= 6 \times 5 \times 4.5$$

$$= 135 \text{ m}^3$$

$$= 135000 \text{ l}$$



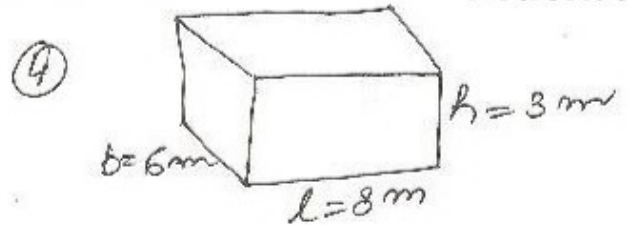
Capacity of tank =  $380 \text{ m}^3$

$$lbh = 380$$

$$10 \times 8 \times h = 380$$

$$\Rightarrow h = \frac{380}{10 \times 8}$$

$$= 4.75 \text{ m}$$



vol of pit =  $lbh$

$$= 8 \times 6 \times 3$$

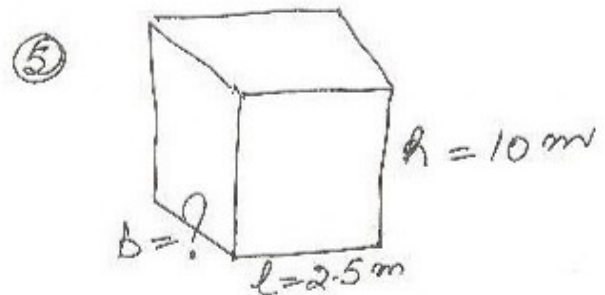
$$= 144 \text{ m}^3$$

cost of digging  $1 \text{ m}^3 = \text{Rs } 30$

cost of digging  $144 \text{ m}^3$

$$= 144 \times 30$$

$$= \text{Rs } 4320$$



Capacity of tank =  $50000 \text{ l}$

$$lbh = \frac{50000}{1000} \text{ m}^3$$

$$2.5 \times b \times 10 = 50 \text{ m}^3$$

$$\Rightarrow b = \frac{50}{25}$$

$$\Rightarrow b = 2$$

$\therefore$  breadth =  $2 \text{ m}$