

Exercise 13A

Question 4:

Length of plank = 5m = 500 cm

Breadth of plank = 25 m Height of plank = 10 cm

Volume of plank = $I \times b \times h$

 $= (500 \times 25 \times 10) \text{ cm}^3$

Now,

= 20 m = 2000 cmLength of pit Breadth of pit = 6m = 600cm

Height of pit = 80 cm

Volume of one pit $= (2000 \times 600 \times 800) \text{ cm}^3$

Volume of pit

 \therefore Number of planks that can be stored = $\frac{Volume of plank}{Volume of plank}$

$$= \frac{(2000 \times 600 \times 80)}{(500 \times 25 \times 10)} = 768$$

Question 5:

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Length of wall = 8m = 800cm

Breadth of wall = 6m = 600 cm

= 22.5 cmHeight of wall Volume of wall

 $= I \times b \times h$ $= (800 \times 600 \times 22.5) \text{ cm}^3$

Length of brick = 25cm

Breadth of brick = 11.25cm Height of brick = 6cm

٠. Volume of brick $= (25 \times 11.25 \times 6) \text{cm}^3$

Volume of the wall

Number of bricks required = $\frac{\text{Volume of brick}}{\text{Volume of brick}}$ ٠.

$$=\frac{(800\times600\times22.5)}{(25\times11.25\times6)}=6400$$

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