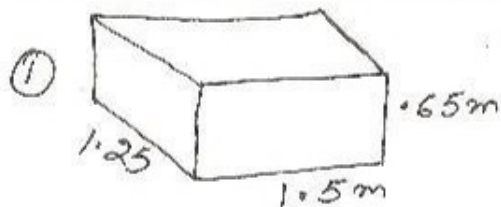
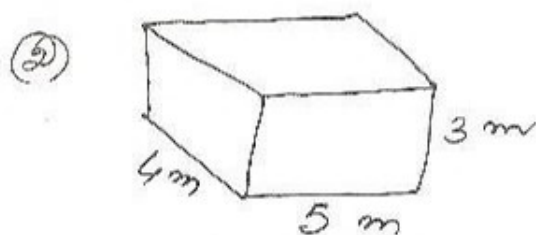


Ex 13.1



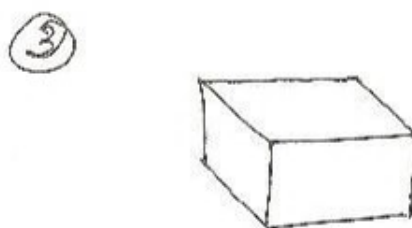
① area of sheet reqd.  
 $= 2h(l+b) + lb$   
 $= 2 \times 0.65(1.5 + 1.25) + 1.5 \times 1.25$   
 $= 1.3 \times 2.75 + 1.5 \times 1.25$   
 $= 3.575 + 1.875$   
 $= 5.45 \text{ m}^2$

② Cost of  $1 \text{ m}^2 = \text{Rs } 20$   
 Cost of  $5.45 \text{ m}^2 = 5.45 \times 20$   
 $= \text{Rs } 109.00$



area to be white washed  
 $= 2h(l+b) + lb$   
 $= 2 \times 3(5+4) + 5 \times 4$   
 $= 6 \times 9 + 20$   
 $= 54 + 20$   
 $= 74 \text{ m}^2$

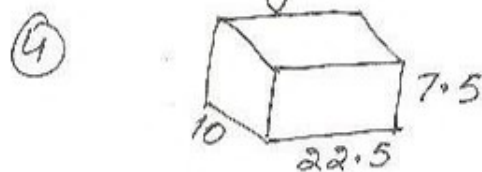
Cost of w.w.  $1 \text{ m}^2 = \text{Rs } 7.50$   
 Cost of w.w.  $74 \text{ m}^2 = 74 \times 7.50$   
 $= \text{Rs } 555$



Cost of painting 4 walls  
 $= \text{Rs } 15000$   
 rate of paint, per sq. m  
 $= \text{Rs } 10$

Lateral surface area

$2h(l+b) = \frac{15000}{10}$   
 $h \times 2(l+b) = 1500 \text{ m}^2$   
 $h \times 250 = 1500$  [Per =  $2(l+b)$ ]  
 $\Rightarrow h = \frac{1500}{250}$   
 $\therefore \text{height} = 6 \text{ m}$



surface area of a brick  
 $= 2(lb + bh + lh)$   
 $= 2[22.5 \times 10 + 10 \times 7.5 + 7.5 \times 22.5]$   
 $= 2(225 + 75 + 168.75)$   
 $= 2 \times 468.75$   
 $= 937.5 \text{ cm}^2$   
 no of bricks  $= \frac{9.375 \times 10^6}{937} = 100$