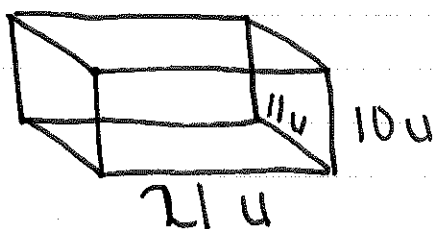


# Volume of Rectangular Prisms

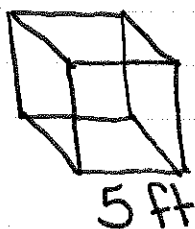
- Volume is the number of cubic units needed to fill a solid (the inside of a solid)
- Volume = Length  $\times$  Width  $\times$  Height  
 $V = LWH$
- Rectangular Prism (tissue box)



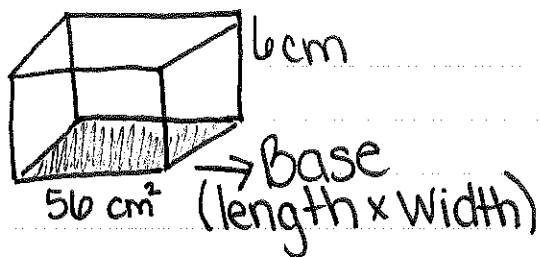
$$\begin{aligned} V &= LWH \\ &= 21 \times 11 \times 10 \\ &= 231 \times 10 \\ &= 2,310 \text{ u}^3 \end{aligned}$$

$$\begin{array}{r} 21 \\ \times 11 \\ \hline 21 \\ + 210 \\ \hline 231 \\ \times 10 \\ \hline 000 \\ + 2310 \\ \hline 2310 \end{array}$$

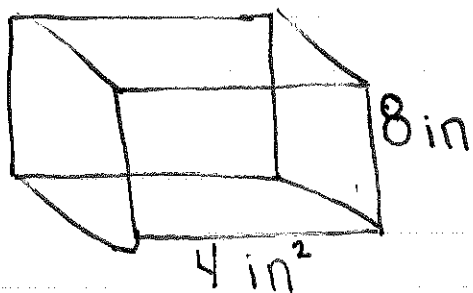
- Cube (dice)



$$\begin{aligned} V &= LWH \\ &= 5 \times 5 \times 5 \\ &= 25 \times 5 \\ &= 125 \text{ ft}^3 \end{aligned}$$



$$\begin{aligned} V &= BH \\ &= 56 \times 6 \\ &= 336 \text{ cm}^3 \end{aligned}$$



$$\begin{aligned} V &= BH \\ &= 4 \times 8 \\ &= 32 \text{ in}^3 \end{aligned}$$

Guided Practice - Pg. 601 # 3-4

Guided Practice - Pg. 595 #3 & #4