

Modeling Rectangular Prisms

Answers

Name: _____

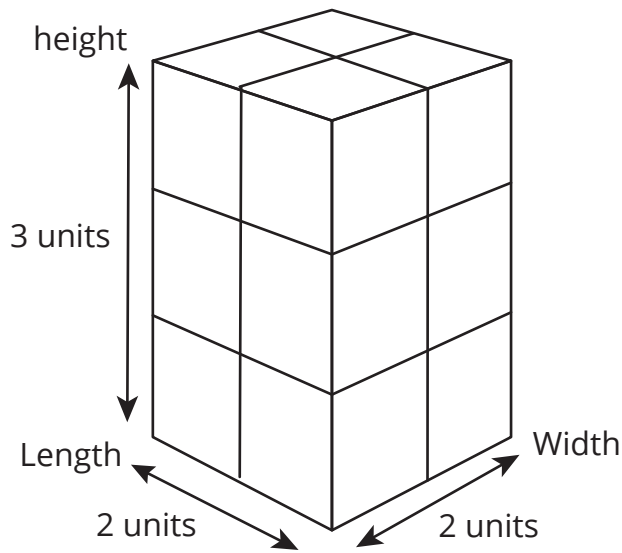
Date: _____

Directions: Complete the equation for each exercise and sketch your rectangular prism. Reference the [**Volume = length × width × height**] (also known as) [**V = l × w × h**] equation. The first exercise is an example. Note: There may be more than one combination of factors!

EXAMPLE: $12 u^3 = l \times w \times h$;

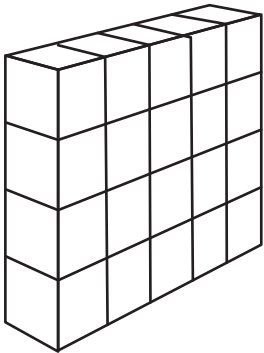
Volume* $12 u^3 = 2 \text{ units} \times 2 \text{ units} \times 3 \text{ units}$

Note that factors 6, 1 and 2 work here too!



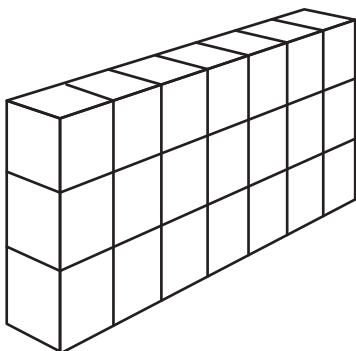
1. $20 u^3 = 4 \times w \times h$

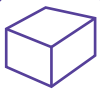
Volume $20 u^3 = 4 \times \underline{1} \times \underline{5}$



2. $21 u^3 = 3 \times w \times 1$

Volume $21 u^3 = 3 \times \underline{1} \times \underline{7}$





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EXAMPLE: $12 u^3 = l \times w \times h$;

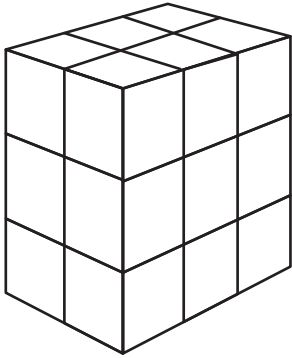
Volume* $12 u^3 = 2 \text{ units} \times 2 \text{ units} \times 3 \text{ units}$

Note that factors 6, 1 and 2 work here too!

3. $18 u^3 = l \times w \times h$

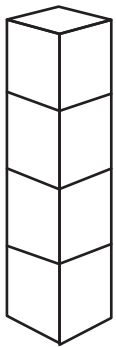
Volume $18u^3 = \underline{2} \times \underline{3} \times \underline{3}$

[can include: (1, 1, 18) and (6,3,1)]



4. $4 u^3 = 4 \times w \times h$

Volume $4 u^3 = 4 \times \underline{1} \times \underline{1}$



Connections: What does it mean to be whole?

ANSWERS MAY VARY, but can include any description that articulates missing parts in relation to a greater composition.