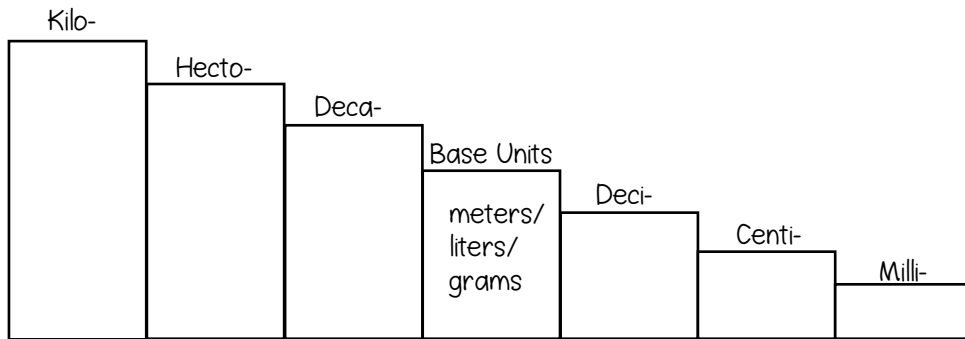


The Metric System



ex: $23 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

going from base unit step to centi- step, so need to move the decimal 2 places right

$$23 \overset{\cdot}{\underset{\cdot}{00}}$$

$$= \boxed{2,300 \text{ cm}}$$

Determine the direction and count the number of steps it takes to get from the starting unit to the unit you are converting to and move the decimal point the same number of places in that direction.

The Customary System

Length	Weight	Capacity
1 ft = 12 in	1 lb = 16 oz	1 c = 8 fl oz
1 yd = 3 ft	1 T = 2,000 lb	1 pt = 2 c
1 mi = 5,280 ft		1 qt = 2 pt
		1 gal = 4 qt

ex: $18 \text{ c} = \underline{\hspace{2cm}} \text{ pt}$

cups are smaller units of measure than pints, so need to divide

$$18 \div 2 = \boxed{9 \text{ pints}}$$

To convert from a larger unit to a smaller unit, multiply. To convert from a smaller unit to a larger unit, divide.

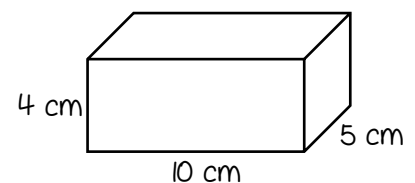
Volume

Volume is the number of cubic units inside a figure.

Volume of Rectangular Prism = length x width x height

Volume of Irregular Figure: count cubic units

ex: find the volume



$$V = 4 \times 10 \times 5 = \boxed{200 \text{ cm}^3}$$

Convert each Metric measurement. Show your work.

85. $1.9 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

86. $23 \text{ g} = \underline{\hspace{2cm}} \text{ mg}$

87. $350 \text{ ml} = \underline{\hspace{2cm}} \text{ kl}$

88. $0.07 \text{ kg} = \underline{\hspace{2cm}} \text{ cg}$

89. $6 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

90. $35 \text{ ml} = \underline{\hspace{2cm}} \text{ l}$

Convert each Customary measurement. Show your work.

91. $48 \text{ in} = \underline{\hspace{2cm}} \text{ ft}$

92. $6 \text{ pt} = \underline{\hspace{2cm}} \text{ c}$

93. $3 \text{ T} = \underline{\hspace{2cm}} \text{ lb}$

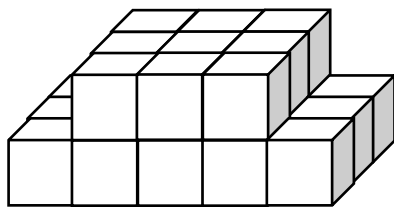
94. $1.5 \text{ mi} = \underline{\hspace{2cm}} \text{ ft}$

95. $32 \text{ pt} = \underline{\hspace{2cm}} \text{ gal}$

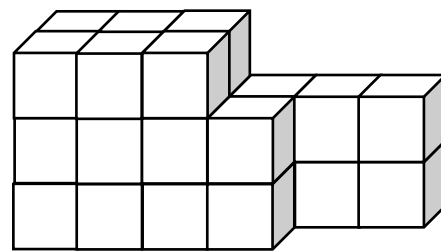
96. $32 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$

Find the volume of each figure. Show your work.

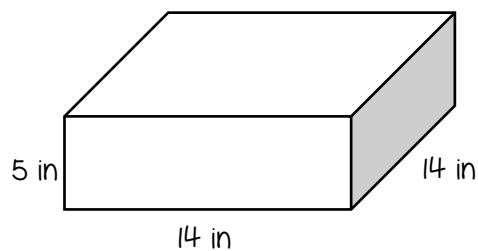
97.



98.



99.



100.

