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1

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UNIT, PHYSICAL QUANTITIES, AND VECTORS

1
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1.1. REWRITING: Convert each unit to kilometers and then to miles.
SETUP: $1 \text{ km} = 1000 \text{ m}$; $1 \text{ mi} = 1609 \text{ m}$; $1 \text{ km} = 0.6214 \text{ mi}$
ANSWER: (a) $1000 \text{ m} = 1 \text{ km}$; $1609 \text{ m} = 1.609 \text{ km}$
EVALUATE: $1 \text{ mi} = 1609 \text{ m} = 1.609 \text{ km}$
SETUP: $1 \text{ km} = 1000 \text{ m}$; $1 \text{ m} = 2.54 \text{ cm}$
ANSWER: $1 \text{ km} = 1000 \text{ m}$; $1 \text{ m} = 2.54 \text{ cm}$
EVALUATE: 1 km^3 is greater than 1 m^3 so the volume in km^3 is a smaller number than the volume in m^3 , which is 473 cm^3 .

1.2. REWRITING: Notice the speed of light is $c = 3.0 \times 10^8 \text{ m/s}$. Convert 1.00 year into seconds.
SETUP: The speed of light is $c = 3.0 \times 10^8 \text{ m/s}$; $1 \text{ yr} = 3.156 \times 10^7 \text{ s}$
ANSWER: $c = 3.0 \times 10^8 \text{ m/s}$; $1 \text{ yr} = 3.156 \times 10^7 \text{ s}$
EVALUATE: $1 \text{ yr} = 3.156 \times 10^7 \text{ s}$
SETUP: $1 \text{ kg} = 1000 \text{ g}$; $1 \text{ m} = 100 \text{ cm}$
ANSWER: $1 \text{ kg} = 1000 \text{ g}$; $1 \text{ m} = 100 \text{ cm}$
EVALUATE: $1 \text{ kg} = 1000 \text{ g}$; $1 \text{ m} = 100 \text{ cm}$
SETUP: $1 \text{ kg} = 1000 \text{ g}$; $1 \text{ m} = 100 \text{ cm}$
ANSWER: $1 \text{ kg} = 1000 \text{ g}$; $1 \text{ m} = 100 \text{ cm}$
EVALUATE: The ratio for conversion from a cubic because we need to convert cm^3 to m^3 .

1.3. REWRITING: Convert volume and then to m^3 and L .
SETUP: $1 \text{ L} = 1000 \text{ cm}^3$; $1 \text{ m} = 100 \text{ cm}$
ANSWER: $(127 \text{ cm}^3) \times (1 \text{ L} / 1000 \text{ cm}^3) = 0.127 \text{ L}$
EVALUATE: The volume is 0.127 L , which is less than 1 m^3 , so the volume in cm^3 is a larger number than the volume in m^3 .