

UNITS, PHYSICAL QUANTITIES AND VECTORS

1.1. IDENTIFY: Convert units from mi to km and from km to ft.

SET UP: $1 \text{ in.} = 2.54 \text{ cm}$, $1 \text{ km} = 1000 \text{ m}$, $12 \text{ in.} = 1 \text{ ft}$, $1 \text{ mi} = 5280 \text{ ft}$.

EXECUTE: (a) $1.00 \text{ mi} = (1.00 \text{ mi}) \left(\frac{5280 \text{ ft}}{1 \text{ mi}} \right) \left(\frac{12 \text{ in.}}{1 \text{ ft}} \right) \left(\frac{2.54 \text{ cm}}{1 \text{ in.}} \right) \left(\frac{1 \text{ m}}{10^2 \text{ cm}} \right) \left(\frac{1 \text{ km}}{10^3 \text{ m}} \right) = 1.61 \text{ km}$

(b) $1.00 \text{ km} = (1.00 \text{ km}) \left(\frac{10^3 \text{ m}}{1 \text{ km}} \right) \left(\frac{10^2 \text{ cm}}{1 \text{ m}} \right) \left(\frac{1 \text{ in.}}{2.54 \text{ cm}} \right) \left(\frac{1 \text{ ft}}{12 \text{ in.}} \right) = 3.28 \times 10^3 \text{ ft}$

EVALUATE: A mile is a greater distance than a kilometer. There are 5280 ft in a mile but only 3280 ft in a km.

1.2. IDENTIFY: Convert volume units from L to in.^3 .

SET UP: $1 \text{ L} = 1000 \text{ cm}^3$, $1 \text{ in.} = 2.54 \text{ cm}$

EXECUTE: $0.473 \text{ L} \times \left(\frac{1000 \text{ cm}^3}{1 \text{ L}} \right) \times \left(\frac{1 \text{ in.}}{2.54 \text{ cm}} \right)^3 = 28.9 \text{ in.}^3$

EVALUATE: 1 in.^3 is greater than 1 cm^3 , so the volume in in.^3 is a smaller number than the volume in cm^3 , which is 473 cm^3 .

1.3. IDENTIFY: We know the speed of light in m/s, $t = d/v$. Convert 1.00 ft to m and t from s to ns.

SET UP: The speed of light is $v = 3.00 \times 10^8 \text{ m/s}$, $1 \text{ ft} = 0.3048 \text{ m}$, $1 \text{ s} = 10^9 \text{ ns}$.

EXECUTE: $t = \frac{0.3048 \text{ m}}{3.00 \times 10^8 \text{ m/s}} = 1.02 \times 10^{-9} \text{ s} = 1.02 \text{ ns}$

EVALUATE: In 1.00 s light travels $3.00 \times 10^8 \text{ m} = 3.00 \times 10^5 \text{ km} = 1.86 \times 10^5 \text{ mi}$.

1.4. IDENTIFY: Convert the units from g to kg and from cm^3 to m^3 .

SET UP: $1 \text{ kg} = 1000 \text{ g}$, $1 \text{ m} = 100 \text{ cm}$.

EXECUTE: $19.3 \frac{\text{g}}{\text{cm}^3} \times \left(\frac{1 \text{ kg}}{1000 \text{ g}} \right) \times \left(\frac{100 \text{ cm}}{1 \text{ m}} \right)^3 = 1.93 \times 10^4 \frac{\text{kg}}{\text{m}^3}$

EVALUATE: The ratio that converts cm to m is cubed, because we need to convert cm^3 to m^3 .

1.5. IDENTIFY: Convert volume units from in.^3 to L.

SET UP: $1 \text{ L} = 1000 \text{ cm}^3$, $1 \text{ in.} = 2.54 \text{ cm}$.

EXECUTE: $(327 \text{ in.}^3) \times (2.54 \text{ cm/in.})^3 \times (1 \text{ L}/1000 \text{ cm}^3) = 5.36 \text{ L}$

EVALUATE: The volume is 5360 cm^3 . 1 cm^3 is less than 1 in.^3 , so the volume in cm^3 is a larger number than the volume in in.^3 .

1.6. IDENTIFY: Convert ft^2 to m^2 and then to hectares.

SET UP: $1.00 \text{ hectare} = 1.00 \times 10^4 \text{ m}^2$, $1 \text{ ft} = 0.3048 \text{ m}$.

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