

# UNITS, PHYSICAL QUANTITIES AND VECTORS

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

SET UP: 1 in. = 2.54 cm, 1 km = 1000 m, 12 in. = 1 ft, 1 mi = 5280 ft.

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

(b)  $1.00 \text{ km} = (1.00 \text{ km}) \left( \frac{10^3 \text{ m}}{1 \text{ km}} \right) \left( \frac{10^5 \text{ cm}}{1 \text{ m}} \right) \left( \frac{1 \text{ in.}}{2.54 \text{ cm}} \right) \left( \frac{1 \text{ ft}}{12 \text{ in.}} \right) = 3.28 \times 10^3 \text{ ft}$

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.<sup>3</sup>.

SET UP: 1 L = 1000 cm<sup>3</sup>, 1 in. = 2.54 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.<sup>3</sup> is greater than 1 cm<sup>3</sup>, so the volume in in.<sup>3</sup> is a smaller number than the volume in cm<sup>3</sup>, which is 473 cm<sup>3</sup>.

- 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 ft = 0.3048 m, 1 s = 10<sup>9</sup> 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<sup>3</sup> to m<sup>3</sup>.

SET UP: 1 kg = 1000 g, 1 m = 1000 cm.

EXECUTE:  $11.3 \frac{\text{g}}{\text{cm}^3} \times \left( \frac{1 \text{ kg}}{1000 \text{ g}} \right) \times \left( \frac{100 \text{ cm}}{1 \text{ m}} \right)^3 = 1.13 \times 10^4 \frac{\text{kg}}{\text{m}^3}$

EVALUATE: The ratio that converts cm to m is cubed, because we need to convert cm<sup>3</sup> to m<sup>3</sup>.

- 1.5. IDENTIFY: Convert volume units from in.<sup>3</sup> to L.

SET UP: 1 L = 1000 cm<sup>3</sup>, 1 in. = 2.54 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<sup>3</sup>. 1 cm<sup>3</sup> is less than 1 in.<sup>3</sup>, so the volume in cm<sup>3</sup> is a larger number than the volume in in.<sup>3</sup>.

- 1.6. IDENTIFY: Convert ft<sup>2</sup> to m<sup>2</sup> and then to hectares.

SET UP: 1.00 hectare = 1.00 × 10<sup>4</sup> m<sup>2</sup>, 1 ft = 0.3048 m.

EXECUTE: The area is (12.0 acres)  $\left( \frac{43,600 \text{ ft}^2}{1 \text{ acre}} \right) \left( \frac{0.3048 \text{ m}}{1.00 \text{ ft}} \right)^2 \left( \frac{1.00 \text{ hectare}}{1.00 \times 10^4 \text{ m}^2} \right) = 4.86 \text{ hectares}$ .

EVALUATE: Since 1 ft = 0.3048 m, 1 ft<sup>2</sup> = (0.3048)<sup>2</sup> m<sup>2</sup>.

- 1.7. IDENTIFY: Convert seconds to years.

SET UP: 1 billion seconds = 1 × 10<sup>9</sup> s, 1 day = 24 h, 1 h = 3600 s.

EXECUTE:  $1.00 \text{ billion seconds} = (1.00 \times 10^9 \text{ s}) \left( \frac{1 \text{ h}}{3600 \text{ s}} \right) \left( \frac{1 \text{ day}}{24 \text{ h}} \right) \left( \frac{1 \text{ y}}{365 \text{ days}} \right) = 31.7 \text{ y}$ .

# University Physics 12th Solution Manual

**J. N. Reddy, D.K. Gartling**



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web may 24 2023 here are ten of my latest segmented pen blanks that i have constructed in the past few months during the virus stay at home time they are made of wood veneer and acrylic material the patterns are brick herringbone celtic knot square inserts reversed spiral and two unnamed others

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web prepping pen blanks as with any segmenting wood that has contrast such as maple or walnut is best the acrylic and wood blanks are both chopped at 45 degrees either on the table saw using a sledge or on the bandsaw it will help if both pieces are the same diameter so i can drill the blank true

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