

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

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

- 1.7. IDENTIFY: Convert seconds to years. 1 gigasecond is a billion seconds.

SET UP: $1 \text{ gigasecond} = 1 \times 10^9 \text{ s}$. $1 \text{ day} = 24 \text{ h}$. $1 \text{ h} = 3600 \text{ s}$.EXECUTE: $1.00 \text{ gigasecond} = (1.00 \times 10^9 \text{ s}) \left(\frac{1 \text{ h}}{3600 \text{ s}} \right) \left(\frac{1 \text{ day}}{24 \text{ h}} \right) \left(\frac{1 \text{ y}}{365 \text{ days}} \right) = 31.7 \text{ y}$.EVALUATE: The conversion $1 \text{ y} = 3.156 \times 10^7 \text{ s}$ assumes $1 \text{ y} = 365.24 \text{ d}$, which is the average for one extra day every four years, in leap years. The problem says instead to assume a 365-day year.

- 1.8. IDENTIFY: Apply the given conversion factors.

SET UP: $1 \text{ furlong} = 0.1250 \text{ mi}$ and $1 \text{ fortnight} = 14 \text{ days}$. $1 \text{ day} = 24 \text{ h}$.EXECUTE: $(180,000 \text{ furlongs/fortnight}) \left(\frac{0.125 \text{ mi}}{1 \text{ furlong}} \right) \left(\frac{1 \text{ fortnight}}{14 \text{ days}} \right) \left(\frac{1 \text{ day}}{24 \text{ h}} \right) = 67 \text{ mi/h}$

EVALUATE: A furlong is less than a mile and a fortnight is many hours, so the speed limit in mph is a much smaller number.

- 1.9. IDENTIFY: Convert miles/gallon to km/L.

SET UP: $1 \text{ mi} = 1.609 \text{ km}$. $1 \text{ gallon} = 3.788 \text{ L}$.EXECUTE: (a) $55.0 \text{ miles/gallon} = (55.0 \text{ miles/gallon}) \left(\frac{1.609 \text{ km}}{1 \text{ mi}} \right) \left(\frac{1 \text{ gallon}}{3.788 \text{ L}} \right) = 23.4 \text{ km/L}$.(b) The volume of gas required is $\frac{1500 \text{ km}}{23.4 \text{ km/L}} = 64.1 \text{ L}$. $\frac{64.1 \text{ L}}{45 \text{ L/tank}} = 1.4 \text{ tanks}$.EVALUATE: $1 \text{ mi/gal} = 0.425 \text{ km/L}$. A km is very roughly half a mile and there are roughly 4 liters in a gallon, so $1 \text{ mi/gal} \approx \frac{1}{4} \text{ km/L}$, which is roughly our result.

- 1.10. IDENTIFY: Convert units.

SET UP: Use the unit conversions given in the problem. Also, $100 \text{ cm} = 1 \text{ m}$ and $1000 \text{ g} = 1 \text{ kg}$.EXECUTE: (a) $\left(60 \frac{\text{mi}}{\text{h}} \right) \left(\frac{1 \text{ h}}{3600 \text{ s}} \right) \left(\frac{5280 \text{ ft}}{1 \text{ mi}} \right) = 88 \frac{\text{ft}}{\text{s}}$ (b) $\left(32 \frac{\text{ft}}{\text{s}^2} \right) \left(\frac{30.48 \text{ cm}}{1 \text{ ft}} \right) \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) = 9.8 \frac{\text{m}}{\text{s}^2}$ (c) $\left(1.0 \frac{\text{g}}{\text{cm}^3} \right) \left(\frac{100 \text{ cm}}{1 \text{ m}} \right)^3 \left(\frac{1 \text{ kg}}{1000 \text{ g}} \right) = 10^3 \frac{\text{kg}}{\text{m}^3}$ EVALUATE: The relations $60 \text{ mi/h} = 88 \text{ ft/s}$ and $1 \text{ g/cm}^3 = 10^3 \text{ kg/m}^3$ are exact. The relation $32 \text{ ft/s}^2 = 9.8 \text{ m/s}^2$ is accurate to only two significant figures.

- 1.11. IDENTIFY: We know the density and mass; thus we can find the volume using the relation
- $\text{density} = \text{mass}/\text{volume} = m/V$
- . The radius is then found from the volume equation for a sphere and the result for the volume.

SET UP: Density $= 19.5 \text{ g/cm}^3$ and $m_{\text{crystal}} = 60.0 \text{ kg}$. For a sphere $V = \frac{4}{3}\pi r^3$.EXECUTE: $V = m_{\text{crystal}}/\text{density} = \left(\frac{60.0 \text{ kg}}{19.5 \text{ g/cm}^3} \right) \left(\frac{1000 \text{ g}}{1.0 \text{ kg}} \right) = 3080 \text{ cm}^3$.

Mastering Physics Solutions Manual Units Physical Quantities

Henry Lea Mason



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