

Practice Problems

1.1 Mathematics and Physics
pages 3–10

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For each problem, give the rewritten equation you would use and the answer.

1. A lightbulb with a resistance of 50.0 ohms is used in a circuit with a 9.0-volt battery. What is the current through the bulb?

$$I = \frac{V}{R} = \frac{9.0 \text{ volt}}{50.0 \text{ ohms}} = 0.18 \text{ ampere}$$

2. An object with uniform acceleration a , starting from rest, will reach a speed of v in time t according to the formula $v = at$. What is the acceleration of a bicyclist who accelerates from rest to 7 m/s in 4 s?

$$a = \frac{v}{t} = \frac{7 \text{ m/s}}{4 \text{ s}} = 1.75 \text{ m/s}^2$$

3. How long will it take a scooter accelerating at 0.400 m/s^2 to go from rest to a speed of 4.00 m/s?

$$t = \frac{v}{a} = \frac{4.00 \text{ m/s}}{0.400 \text{ m/s}^2} = 10.0 \text{ s}$$

4. The pressure on a surface is equal to the force divided by the area: $P = F/A$. A 53-kg woman exerts a force (weight) of 520 Newtons. If the pressure exerted on the floor is $32,500 \text{ N/m}^2$, what is the area of the soles of her shoes?

$$A = \frac{F}{P} = \frac{520 \text{ N}}{32,500 \text{ N/m}^2} = 0.016 \text{ m}^2$$

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Use dimensional analysis to check your equation before multiplying.

5. How many megahertz is 750 kilohertz?

$$750 \text{ kHz} \left(\frac{1000 \text{ Hz}}{1 \text{ kHz}} \right) \left(\frac{1 \text{ MHz}}{1,000,000 \text{ Hz}} \right) = 0.75 \text{ MHz}$$

6. Convert 5021 centimeters to kilometers.

$$5021 \text{ cm} \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = 5.021 \times 10^{-2} \text{ km}$$

7. How many seconds are in a leap year?

$$366 \text{ days} \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) \left(\frac{60 \text{ min}}{1 \text{ hr}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) = 31,622,400 \text{ s}$$

8. Convert the speed 5.30 m/s to km/h.

$$\left(\frac{5.30 \text{ m}}{1 \text{ s}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) \left(\frac{60 \text{ min}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = 19.08 \text{ km/h}$$

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Solve the following problems.

9. a. $6.201 \text{ cm} + 7.4 \text{ cm} + 0.68 \text{ cm} + 12.0 \text{ cm}$

$$\begin{array}{r} 6.201 \text{ cm} \\ 7.4 \text{ cm} \\ 0.68 \text{ cm} \\ + 12.0 \text{ cm} \\ \hline 26.281 \text{ cm} \\ = 26.3 \text{ cm after rounding} \end{array}$$

- b. $1.6 \text{ km} + 1.62 \text{ m} + 1200 \text{ cm}$

$$\begin{array}{r} 1.6 \text{ km} = 1600 \text{ m} \\ 1.62 \text{ m} = 1.62 \text{ m} \\ 1200 \text{ cm} = + 12 \text{ m} \\ \hline 1613.62 \text{ m} \\ = 1600 \text{ m or } 1.6 \text{ km after rounding} \end{array}$$

10. a. $10.8 \text{ g} - 8.264 \text{ g}$

$$\begin{array}{r} 10.8 \text{ g} \\ - 8.264 \text{ g} \\ \hline 2.536 \text{ g} \\ = 2.5 \text{ g after rounding} \end{array}$$

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