

## Basic Physics I – Selected Solved Problems from Cutnell & Johnson Textbook 7<sup>th</sup> Edition – Wiley

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### Introduction and Mathematical Concepts

2. Vesna Vulovic survived the longest fall on record without a parachute when her plane exploded and she fell 6 miles, 551 yards. What is this distance in meters?

#### **REASONING**

We use the facts that 1 mi = 5280 ft, 1 m = 3.281 ft, and 1 yd = 3 ft. With these facts we construct three conversion factors: (5280 ft)/(1 mi) = 1, (1 m)/(3.281 ft) = 1, and (3 ft)/(1 yd) = 1.

#### **SOLUTION**

By multiplying by the given distance  $d$  of the fall by the appropriate conversion factors we find that

$$d = (6 \text{ mi}) \left( \frac{5280 \cancel{\text{ft}}}{1 \cancel{\text{mi}}} \right) \left( \frac{1 \text{ m}}{3.281 \cancel{\text{ft}}} \right) + (551 \text{ yd}) \left( \frac{3 \cancel{\text{ft}}}{1 \cancel{\text{yd}}} \right) \left( \frac{1 \text{ m}}{3.281 \cancel{\text{ft}}} \right) = \boxed{10\,159 \text{ m}}$$

3. Bicyclists in the Tour de France reach speeds of 34.0 miles per hour (mi/h) on flat sections of the road. What is this speed in (a) kilometers per hour (km/h) and (b) meters per second (m/s)?

#### **REASONING**

a. To convert the speed from miles per hour (mi/h) to kilometers per hour (km/h), we need to convert miles to kilometers. This conversion is achieved by using the relation 1.609 km = 1 mi (see the page facing the inside of the front cover of the text).

b. To convert the speed from miles per hour (mi/h) to meters per second (m/s), we must convert miles to meters and hours to seconds. This is accomplished by using the conversions 1 mi = 1609 m and 1 h = 3600 s.

#### **SOLUTION**

a. Multiplying the speed of 34.0 mi/h by a factor of unity, (1.609 km)/(1 mi) = 1, we find the speed of the bicyclists is

$$\text{Speed} = \left( 34.0 \frac{\text{mi}}{\text{h}} \right) (1) = \left( 34.0 \frac{\cancel{\text{mi}}}{\text{h}} \right) \left( \frac{1.609 \text{ km}}{1 \cancel{\text{mi}}} \right) = \boxed{54.7 \frac{\text{km}}{\text{h}}}$$

b. Multiplying the speed of 34.0 mi/h by two factors of unity, (1609 m)/(1 mi) = 1 and (1 h)/(3600 s) = 1, the speed of the bicyclists is

$$\text{Speed} = \left( 34.0 \frac{\text{mi}}{\text{h}} \right) (1) (1) = \left( 34.0 \frac{\cancel{\text{mi}}}{\cancel{\text{h}}} \right) \left( \frac{1609 \text{ m}}{1 \cancel{\text{mi}}} \right) \left( \frac{1 \cancel{\text{h}}}{3600 \text{ s}} \right) = \boxed{15.2 \frac{\text{m}}{\text{s}}}$$

4. Azelastine hydrochloride is an antihistamine nasal spray. A standard size container holds one fluid ounce (oz) of the liquid. You are searching for this medication in a European drugstore and are asked how many milliliters (mL) there are in one fluid ounce. Using the following conversion factors, determine the number

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**John D. Cutnell, Kenneth W. Johnson**



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