

3. Your car's odometer shows you and your friends have traveled 560,000 meters. How many miles have you traveled?

$$560,000 \text{ m} \left(\frac{3.28 \text{ ft}}{1 \text{ m}} \right) \left(\frac{1 \text{ mile}}{5280 \text{ ft}} \right) = \frac{(560,000 \times 3.28 \times 1)}{(1 \times 5280)} = \frac{1836800}{5280} = 347.9 \text{ miles}$$

4. You stop to buy a soft drink. The store has two different sizes. One size is 20 oz, and the other is 600 ml. If both sizes cost \$1.00, which is the better deal?

$$20 \text{ oz} \left(\frac{29.57 \text{ mL}}{1 \text{ oz}} \right) = \frac{(20 \times 29.57)}{1} = 591.4 \text{ mL}$$

The 600 ml drink is the better deal

5. You also want to buy a pound of gummy bears to share with your friends. If the gummy bears cost \$9.00 per kilogram, how much would 1 pound cost?

$$\left(\frac{9.00 \text{ \$}}{\text{Kg}} \right) \left(\frac{0.45 \text{ Kg}}{1 \text{ lb.}} \right) = \frac{4.05}{1} = 4.05 \frac{\text{\$}}{\text{lb.}}$$

6. After purchasing your snacks, you begin driving again. If you travel at 65 miles per hour, how many meters will you travel in 2.5 hours?

$$65 \frac{\text{mi}}{\text{hr}} \left(\frac{5280 \text{ feet}}{1 \text{ mile}} \right) \left(\frac{1 \text{ m}}{3.28 \text{ feet}} \right) = \frac{(65 \times 5280 \times 1)}{(1 \times 3.28)}$$

$$\frac{343200}{3.28} = 104634 \frac{\text{meters}}{\text{hr}} \times 2.5 \text{ hrs} = 261585 \text{ meters}$$

7. If your car can travel 20 miles on 1 gallon of fuel, how many liters were used to travel 200 kilometers?

$$20 \frac{\text{miles}}{\text{gallon}} \left(\frac{.264 \text{ gal}}{1 \text{ L}} \right) \left(\frac{1.6 \text{ Km}}{1 \text{ mile}} \right) = \frac{(20 \times .264 \times 1.6)}{(1 \times 1)}$$

$$\frac{8.5}{1} = 8.5 \frac{\text{Km}}{\text{L}} \quad \frac{200 \text{ Km}}{8.5 \frac{\text{Km}}{\text{L}}} = 24 \text{ L}$$

