Review Exercise Set 37

Exercise 1: Convert the following measurement.

50 mi = ? km

Exercise 2: Convert the following measurement.

16 oz = ? g

Exercise 3: Convert the following measurement.

8 L = ? gal

Exercise 4: Convert the following measurement.

70 mi/h = ? km/h

Exercise 5: A store is selling gasoline for $2.79/gal. Find the cost per liter. Round your answer to the nearest cent.

Review Exercise Set 37 Answer Key

Exercise 1: Convert the following measurement.

50 mi = ? km

Conversion factor: 1 mi ≈ 1.61 km

$$50 \text{ mi} \times \frac{1.61 \text{ km}}{1 \text{ mi}} \approx \frac{80.5 \text{ km}}{1} \approx 80.5 \text{ km}$$

The correct answer is that 50 miles is approximately equal to 80.5 kilometers

Exercise 2: Convert the following measurement.

16 oz = ? g

Conversion factor: 1 oz ≈ 28.35 g

$$16 \text{ oz} \times \frac{28.35 \text{ g}}{1 \text{ oz}} \approx \frac{453.6 \text{ g}}{1} \approx 453.6 \text{ g}$$

The correct answer is that 16 ounces is approximately equal to 453.6 grams

Exercise 3: Convert the following measurement.

8 L = ? gal

Conversion factor: 1 gal ≈ 3.79 L

$$8 \text{ L} \times \frac{1 \text{ gal}}{3.79 \text{ L}} \approx \frac{8 \text{ gal}}{3.79} \approx 2.11 \text{ gal}$$

The correct answer is that 8 liters is approximately equal to 2.11 gallons

Exercise 4: Convert the following measurement.

70 mi/h = ? km/h

$$\frac{70\text{ mi}}{1\text{ h}} \times \frac{1.61\text{ km}}{1\text{ mi}} \approx \frac{112.7\text{ km}}{1\text{ h}}$$

The correct answer is that 70 miles per hour is approximately equal to 112.7 kilometers per hour

Exercise 5: A store is selling gasoline for $2.79/gal. Find the cost per liter. Round your answer to the nearest cent.

$$\frac{\$2.79}{1\text{ gal}} \quad \frac{1\text{ gal}}{3.79\text{ L}} \approx \frac{\$2.79}{3.79\text{ L}} \approx \frac{\$0.74}{1\text{ L}}$$

The correct answer is that $2.79 per gallon is approximately equal to $0.74 per liter