Unit Conversion Practice

Name: _____ Date: _____

Question 1

Complete the unit conversions

I. A parallelogram has a height of 8 meters and a base of 9 meters. What is the area (meters^2) of the parallelogram? (parallelogram area = base · height)

II. Claire waits 5 minutes in line. How many seconds did Claire wait? (1 minute = 60 seconds)

III. A cylinder has a volume of 9.8 gallons. What is the volume in liters? (1 gallon = 3.785 liters)

IV. A parallelogram has a height of 73 centimeters and a base of 45 centimeters. What is the area (centimeters^2) of the parallelogram? (parallelogram area = base · height)

V. William has five U.S. dollars. How many cents does he have? (1 U.S. dollar = 100 U.S. cents)

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Question 1

Complete the unit conversions

I. A parallelogram has a height of 8 meters and a base of 9 meters. What is the area (meters²) of the parallelogram? (parallelogram area = base · height)

$$\frac{8}{1}\ \text{meters} \cdot \frac{9}{1}\ \text{meters} = \frac{72}{1}\ \text{meters}^2$$

II. Claire waits 5 minutes in line. How many seconds did Claire wait? (1 minute = 60 seconds)

$$\frac{5}{1}\ \text{minutes} \cdot \frac{60\ \text{seconds}}{1\ \text{minute}} = \frac{300}{1}\ \text{seconds}$$

III. A cylinder has a volume of 9.8 gallons. What is the volume in liters? (1 gallon = 3.785 liters)

$$\frac{9.8}{1}\ \text{gallons} \cdot \frac{3.785\ \text{liters}}{1\ \text{gallon}} = \frac{37.093}{1}\ \text{liters}$$

IV. A parallelogram has a height of 73 centimeters and a base of 45 centimeters. What is the area (centimeters²) of the parallelogram? (parallelogram area = base · height)

$$\frac{73}{1}\ \text{centimeters} \cdot \frac{45}{1}\ \text{centimeters} = \frac{3{,}285}{1}\ \text{centimeters}^2$$

V. William has five U.S. dollars. How many cents does he have? (1 U.S. dollar = 100 U.S. cents)

$$\frac{5}{1}\ \text{U.S. dollars} \cdot \frac{100\ \text{U.S. cents}}{1\ \text{U.S. dollars}} = \frac{500}{1}\ \text{U.S. cents}$$

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