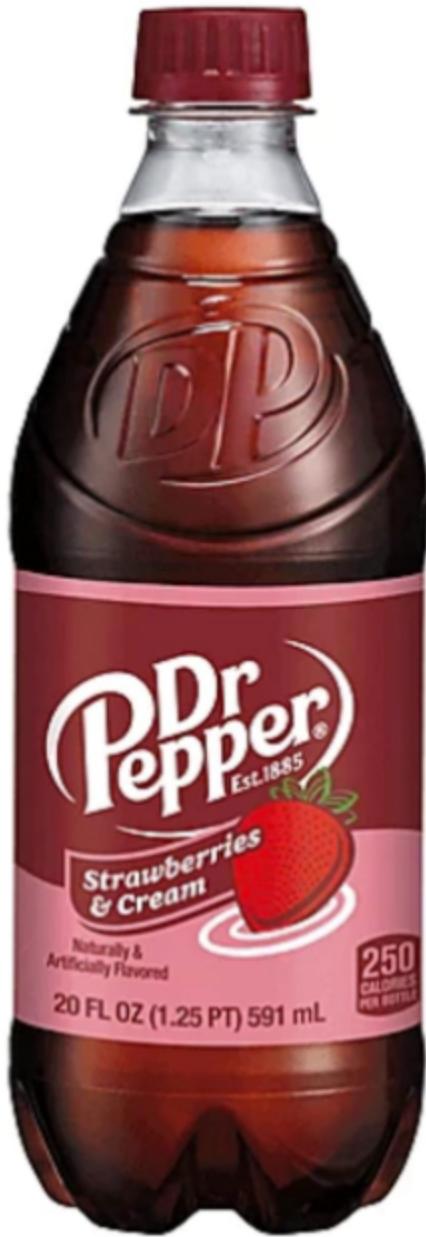


Name:	Mikalah [REDACTED]
Instructor:	Samuel Chukwuemeka
Objective:	To convert a measurement from one unit to another unit.
Measurements:	Volume
1 st unit given:	Customary Unit (1.25 pt)
To convert to:	Metric Unit (591 mL)
2 nd unit given:	Metric Unit (591 mL)
To convert to:	Customary Unit (1.25 pt)
Container used:	Dr. Pepper bottle



Convert 1.25 pt to mL

Measurements from the tables I have been given:

$$1 \text{ mL} = 10^{-3} \text{ L}$$

$$1 \text{ mL} = 0.001 \text{ L}$$

$$1 \text{ L} = 0.26417205 \text{ gal}$$

$$1 \text{ gal} = 8 \text{ pt}$$

Unity Fraction Method:

$$1.25 \text{ pt} \times \frac{\text{gal}}{\text{pt}} \times \frac{\text{L}}{\text{gal}} \times \frac{\text{mL}}{\text{L}}$$

$$1.25 \text{ pt} \times \frac{1 \text{ gal}}{8 \text{ pt}} \times \frac{1 \text{ L}}{0.2641720 \text{ gal}} \times \frac{1 \text{ mL}}{0.001 \text{ L}}$$

$$\frac{1.25 \text{ mL}}{0.002113376}$$

$$= 591.4707085 \text{ mL}$$

Rounded to the nearest whole number = 591 mL

This confirms the value on the container

Convert 591 mL to pt

Measurements from the tables I have been given:

$$1 \text{ mL} = 10^{-3} \text{ L}$$

$$1 \text{ mL} = 0.001 \text{ L}$$

$$1 \text{ L} = 0.26417205 \text{ gal}$$

$$1 \text{ gal} = 8 \text{ pt}$$

Unity Fraction Method:

$$591 \text{ mL} \times \frac{L}{mL} \times \frac{gal}{L} \times \frac{pt}{gal}$$

$$591 \text{ mL} \times \frac{0.001 \text{ L}}{1 \text{ mL}} \times \frac{0.26417205 \text{ gal}}{1 \text{ L}} \times \frac{8 \text{ pt}}{1 \text{ gal}}$$

$$\frac{1.249005452}{1}$$

$$= 1.249005452 \text{ pt}$$

Rounded to the hundredths place = 1.25 pt

This confirms the value on the container