

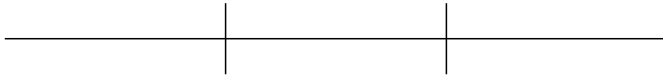
Name _____

Convert the following measurements using dimensional analysis.

1) Convert 64000 micrograms to grams.



2) Convert 2248 milliliters to liters.



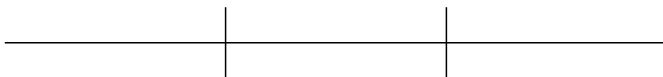
3) Convert 40968 seconds to hours.



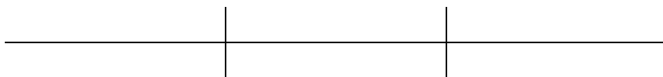
4) Convert 33000 micrograms to grams.



5) Convert 787.6 centimeters to millimeters.



6) Convert 12.39 meters to centimeters.



Answer Sheet

Convert the following measurements using dimensional analysis.

- 1) Convert 64000 micrograms to grams.

$$\frac{64000 \mu\text{g}}{1000 \mu\text{g}} \times \frac{1 \text{ mg}}{1000 \text{ mg}} \times \frac{1 \text{ g}}{1000 \text{ mg}} = 0.064 \text{ g}$$

- 2) Convert 2248 milliliters to liters.

$$\frac{2248 \text{ mL}}{1000 \text{ mL}} = 2.248 \text{ L}$$

- 3) Convert 40968 seconds to hours.

$$\frac{40968 \text{ s}}{60 \text{ s}} \times \frac{1 \text{ min}}{60 \text{ min}} \times \frac{1 \text{ h}}{60 \text{ min}} = 11.38 \text{ h}$$

- 4) Convert 33000 micrograms to grams.

$$\frac{33000 \mu\text{g}}{1000 \mu\text{g}} \times \frac{1 \text{ mg}}{1000 \text{ mg}} \times \frac{1 \text{ g}}{1000 \text{ mg}} = 0.033 \text{ g}$$

- 5) Convert 787.6 centimeters to millimeters.

$$\frac{787.6 \text{ cm}}{1 \text{ cm}} \times \frac{10 \text{ mm}}{1 \text{ cm}} = 7876 \text{ mm}$$

- 6) Convert 12.39 meters to centimeters.

$$\frac{12.39 \text{ m}}{1 \text{ m}} \times \frac{100 \text{ cm}}{1 \text{ m}} = 1239 \text{ cm}$$