

Name:	Elizabeth [REDACTED]
Instructor:	Samuel Chukwuemeka
Objective:	To convert measurements
Measurement:	Mass (weight)
1 <sup>st</sup> Given Unit:	Customary Unit (Ounce)
Convert To:	Metric Unit (Grams)
2 <sup>nd</sup> Given Unit:	Metric Unit (Grams)
Convert To:	Customary Unit (ounce)
Container Used:	Pillsbury White Frosting



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Convert 16oz to grams.

**From Tables in Pacing Guide:**

$$1 \text{ lb} = 16 \text{ ounces}$$

$$1 \text{ lb} = 453.5923 \text{ grams}$$

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To begin the conversion chain I will use the conversion factor from above and use the unity fraction method and begin multiplication and division in order to convert 16 oz to g correctly.

$$16 \text{ oz} * \frac{\text{lb}}{\text{oz}} * \frac{\text{g}}{\text{lb}} = ?$$

$$16 \text{ oz} * \frac{1 \text{ lb}}{16 \text{ oz}} * \frac{453.5923 \text{ g}}{1 \text{ lb}} = ? \text{ grams}$$

$$= \frac{16 * 453.5923}{16}$$

$$= \frac{7257.4768}{16}$$

$$= 453.5923 \text{ grams}$$

Rounding down this answer will give the answer of 453 grams which is what is listed on the container.

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Convert 453 grams to ounces.

**From Tables in Pacing Guide:**

$$1 \text{ lb} = 16 \text{ ounces}$$

$$1 \text{ lb} = 453.5923 \text{ grams}$$


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$$453 \text{ g} * \frac{\text{lb}}{\text{g}} * \frac{\text{oz}}{\text{lb}} = ?$$

$$453 \text{ g} * \frac{1 \text{ lb}}{453.5923 \text{ g}} * \frac{16}{1 \text{ lb}} = ? \text{ ounces}$$

$$= \frac{453 * 16}{453.5923}$$

$$= \frac{7248}{453.5923}$$

$$= 15.97910723 \text{ ounces}$$

Rounding this answer up will give the same number (16 ounces) as is listed on the container. This concludes and confirms that the conversion on the container was done correctly.

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