## 1 Lesson 2.1 Computing the Energy in Food

• The modern metric unit of energy is the <u>joule</u>.

• An older unit of energy is the <u>calorie</u>.

• To convert use: \_\_\_\_\_ 1 \_\_\_ calorie = \_\_\_\_ 4.2 \_\_\_ joules

 $\bullet$  A food calorie = 1000 energy calories = 1 kilocalorie = 1 kcal

## Find the grams per serving

Find the food **calories per serving** on the label - remember that these are actually kcal of energy.

Compute the kcal per gram:

$$kcal/g = \frac{calories\ per\ serving}{grams\ per\ serving} = \underline{\qquad \qquad } kcal$$

## **Nutrition Facts**

Serving Size 1/2 cup (102g) Servings Per Container 4

<b>Amount Per Serving</b>		
Calories 300	Calorie	s from Fat 160
		% Daily Values*
Total Fat 18g		28%
Saturated Fat 9g		45%
Trans Fat 0g		
Cholesterol 45mg		15%
Sodium 250mg		10%
Total Carbohydra	<b>te</b> 33g	11%
Dietary Fiber 1g		4%
Sugars 30g		
Protein 7g		
Vitamin A 15%	•	Vitamin C 0%
Calcium 15%	•	Iron 4%

<sup>\*</sup> Percent Daily Values are based on a 2,000 calorie diet.