

Constructed Response Item—Foods Course, Lincoln-Way High School

Course: Foods

Instructors: Bingham, Doogan, Madonia

TITLE: Food Labels

CC Alignment:

Strands Quantities
 Mathematical Practices

Cluster Reason quantitatively and use units to solve problems.

Standards:


CC.K-12.MP.1 Make sense of problems and persevere in solving them.

CC.K-12.MP.2 Reason abstractly and quantitatively.

CC.9-12.N.Q.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.*

PROBLEM: Answer the following questions using the information provided on the food label.

Serving Size	16 fl. oz.
	Amt Per Serving
Calories	510
Fat Calories	190
Total Fat (g)	22
Saturated Fat (g)	15
Trans Fat (g)	0
Cholesterol (mg)	65
Sodium (mg)	310
Total Carbohydrates (g)	73
Fiber (g)	2
Sugars (g)	59
Protein (g)	7
Vitamin A	0%
Vitamin C	0%
Calcium	25%
Iron	10%



1. What percent of a total recommend daily calorie intake of 2,000 calories is consumed by drinking a Grande (16 fl oz) Java Chip Frappuccino?
2. For a recommended daily intake of sodium of 2,400 mg. What %DV is consumed with this beverage?

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3. How many Java Chip Frappuccino beverages would you need to drink in order to consume 100% calcium intake?

4. A Java Chip Frappuccino is not a significant source of which nutrient(s)?

COMMENTARY:

Students read the food label, use their background knowledge of nutrition, and complete the math activities.

SOLUTION: Suggested responses; responses may vary slightly.

1. 25.5%
2. 12.9%
3. 4
4. Vitamins A & C

Source: *Original Work of K. Bingham, B. Doogan, and A. Madonia, Lincoln-Way High School District #210, Frankfort, IL*