

Managing a Food Bank

BROAD AREAS OF LEARNING: Citizenship and Community Life, Consumer Rights and Responsibilities

CROSS-CURRICULAR COMPETENCIES:

- Uses information
 - Solves problems
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Application Question

- **To develop Competency 2:** Uses mathematical reasoning
- **To develop Competency 3:** Communicates by using mathematical language

Planning a Good Meal

You are the manager of a local food bank and need to determine how items will be distributed to the people who visit the bank. Use the food supply list found in Appendix A and the criteria given below to decide how the food should be divided.

? How can the available food be divided to provide for all the people who visit the food bank each day?

Criteria for the division of food:

- The food bank must service 310 households, including 530 adults and 360 children.
- 120 households contain children, 100 households are couples without children, and the rest of the households are single adults.
- Children will receive $\frac{3}{4}$ of the amount of canned fruits and vegetables as an adult.
- An adult will receive $\frac{1}{2}$ as much cereal as a child.
- Boxed items (rice and pastas) are given to households with children compared to households without children at a ratio of $\frac{2}{1}$.
- Instant potatoes are distributed equally among households.
- Dry beans and eggs, which are proteins, are divided equally among individuals, regardless of age.
- You must distribute some of each item listed in Appendix A (but not necessarily all of each item), and every household should receive food from each of the following areas: fruits and vegetables, grains, and proteins.

Name: _____ Date: _____

Explain how the food was divided fairly.

Evaluation Criteria Checklist

- You gave each child $\frac{3}{4}$ of the amount of canned fruits and vegetables as each adult.
- You supplied each adult with $\frac{1}{2}$ as much cereal as each child.
- Rice and pastas were given to households with children compared to households without children at a ratio of $\frac{2}{1}$.
- Instant potatoes were distributed equally among households.
- Dry beans and eggs were distributed equally among individuals.
- You used each of the food supply types listed, and everyone received a nutritious supply.
- You used correct mathematical language in your explanations.