

Chapter 6 Math Link: Wrap It Up!

This worksheet will help you with the Wrap It Up! on page 247.

You are planning a canoe trip with some friends. Use the Internet, travel brochures, or other sources to find information about your trip.

- Describe your trip.
 - Where are you going?
 - How long will your trip be?
 - Who is going on the trip? (Include their ages.)
- You are in charge of ordering food supplies to meet the food energy requirements of your group. For the trip, the amount of food energy required by a canoeist each day can be modelled by the equation $a = \frac{C}{100} - 17$, where a represents the person's age and C represents the daily food energy requirement (measured in calories).
 - Create a table of values to help plan the total food energy requirements. For age, use the combined age of all group members.

Number of Days, d					
Total Food Energy to Pack, C					

Example: Three canoeists aged 13, 15, and 20 have a combined age of 48 years. The daily food energy requirement for this group is 6500 calories.

$$48 = \frac{C}{100} - 17$$

$$48 + 17 = \frac{C}{100} - 17 + 17$$

$$65 \times 100 = \frac{C}{100} \times 100$$

$$6500 = C$$

- Use grid paper to graph the linear relation. Label the graph.
- Develop a problem based on your graph. Your problem needs to include interpolation and extrapolation.
 - Provide a solution. Show your work.