SAFETY RULES ARE THE BEST TOOLS Planning the Safety Fair: Prizes

The following questions will help you decide how much it will cost for the prizes you will give away at the fair.

- **1.** People who attend the fair will be able to enter their names into a drawing to win prizes. Write an expression to show how to find the total cost of the prizes.
 - bike helmet, \$24.25
 - life jacket, \$36.20

(24.25 + 36.20 + 28.75 + 42.80)

- hand crank radio, \$28.75
- solar charger, \$42.80
- **2.** Write an expression to show how you can find the total cost of the prizes if you give away two of each item.

2(24.25 + 36.20 + 28.75 + 42.80)

3. Describe the relationship between the expression (24.25 + 36.20 + 28.75 + 42.80)and the expression 2(24.25 + 36.20 + 28.75 + 42.80)

The value of the expression 2(24.25 + 36.20 + 28.75 + 42.80) will be two times larger than the value of the expression (24.25 + 36.20 + 28.75 + 42.80). The numbers inside the parenthesis are the same in both expressions. Only the 2 is different.

4. Determine the total cost of the prizes if you give away two of each item. Think about what the numbers after the decimal point mean, and how you can combine them to form groups that are equal to one whole. Explain your thinking.

(36.20 + 42.80) + (28.75 + 24.25) = 79 + 53 = 132.00 132 x 2 = 264

I noticed that I could put the 20 hundredths together with the 80 hundredths to make one hundred hundredths, which is the same as one whole. I also noticed that I could put the 75 hundredths together with the 25 hundredths to make another whole. I added all of the whole numbers, plus the extra 2 from the hundredths, and got 132. Since there will be two of each prize, I multiplied this by 2 and got 264. The total cost of the prizes is \$264.00.