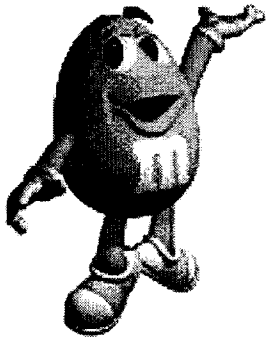




Million Dollar Candy

**Average
Problem Solving
Percent
Rounding
Measurement**



? represents a high level question

Finding the Percent of Red M&M's® in a Bag

From the Run menu:
Enter the total number of red M&M's® in the bag.
Press \div
Enter the total number of M&M's® in the bag.
Press EXE

Standards: Problem Solving, Communication, Connections, and Statistics.

Materials: fx-7400G, 1.69 ounce bag of M&M's®, car weight and price, scales.

Calculator Use: RUN Menu

Weigh your bag of M&M's®. Compare your result with the weight listed on the package. Explain your results. **A.**

Open your bag of M&M's®. Weigh just the candy. Compare your result with the weight listed on the package. Explain your results. **B.**



Open your bag of M&M's®. Sort them by color. If a piece appears to be half or more of an M&M, count it as a whole one. If a piece appears to be smaller than a half of an M&M®, disregard it (or eat it!). Record the results of your bag in Table 1.

Counts	Blue	Brown	Green	Orange	Red	Yellow	Total
Your package							
Small Group							
Total Class							

Table 1

Find the percent of the total that is represented by each color. Round to the nearest whole number. Complete Table 2 with this data.

Percent	Blue	Brown	Green	Orange	Red	Yellow	Total
Your package							
Small Group							
Total Class							

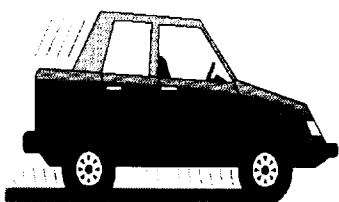
Table 2

How could your percent total be greater than 100%? **C.**

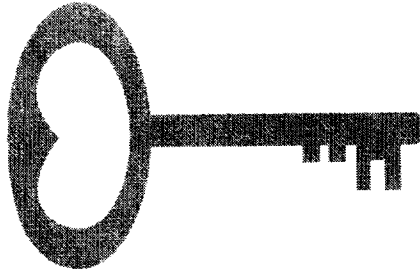
Suppose your 1.69 OZ. bag of M&M's sold for \$0.49. How much would 2500 pounds of M&M's be worth? **D.** _____

The 1997 Mercedes Benz SLK 230 convertible has a base price of \$39,700. Could you afford to buy that with the money from the 2500 pounds of M&M's? **E.** _____

What car would you buy if you had the cash from the 2500 pounds of M&M's? **F.**



Solution Key



Million Dollar Candy

- A.** The packages must weigh at least 1.96 oz. Generally it will be slightly heavier because it is difficult to get the pieces to weigh exactly $1/96$ oz.
- B.** The packages must weigh at least 1.96 oz. Generally it will be slightly heavier because it is difficult to get the pieces to weigh exactly $1/96$ oz.
- C.** Rounding up of two values could cause the total to go over 100%.
- D.** $2500 \times 16 \div 1.96 = 20408.16327$ bags of M&M's
 20408.16327 bags of M&M's \times \$0.49 per bag = \$10,000.00
 $2500 \times 16 \div 1.69 = 23668.63905$ bags of M&M's
 23668.63905 bags of M&M's \times \$0.49 per bag = \$11,597.63
- E.** No **F.** Answer will vary. New or used.