

**Average
Problem Solving
Percent
Rounding
Measurement**

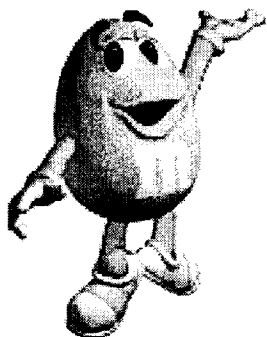


Candygram

Standards: Problem Solving, Communication, Reasoning, and Algebra

Materials: CFX-9850G or CFX-9850Ga PLUS

Calculator Menu: RUN



Chocolate, preparation made from the fruit of the cacao tree and used as a flavoring and as an ingredient of beverages and various kinds of confectionery. Chocolate was brought to Europe by the Spaniards, who learned its use from the Aztecs at the time of the invasion by the Spanish adventurer Hernán Cortés in 1519. It was introduced into England about 1657. In the United States, chocolate was first manufactured at Milton Lower Mills, near Dorchester, Massachusetts, in 1765. In the early 1990s, annual U.S. production of chocolate and related confections exceeded 1.2 million metric tons. Annual consumption in the U.S. was about 5.1 kg (11.3 lb) per capita. "Chocolate," Microsoft (R) Encarta. Copyright (c) 1994 Microsoft Corporation. Copyright (c) 1994 Funk & Wagnall's Corporation.

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

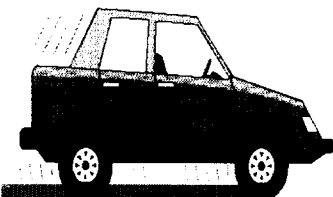
How could your percent total be greater than 100%? **C.**

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.** _____

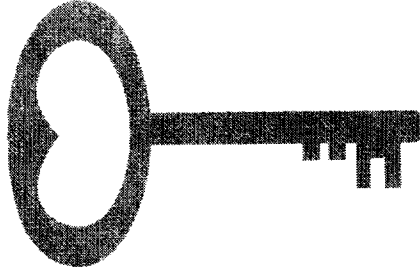
The 1997 Mercedes Benz SLK 230 convertible has a base price of \$39,700. Could you afford to buy that with the money from the 2500 pounds of M&M's? **E.**

Check at three stores to determine the average cost of a 1.69 OZ. bag of M&M's. How many bags of M&M's would it take to equal the value of the SLK 230? **F.**

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



Solution Key



Candygram

- 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.** $2500 \times 16 \div 1.69 = 23668.63905$ 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. **G.** Answers will vary.