

MA 202  
Spring Semester 2004

**WARNING:** You must **SHOW ALL OF YOUR WORK**. You will receive NO CREDIT if you do not show your work.

**DUE: TUESDAY, 02 MARCH 2004**

1. M&M's – Experiment 1

- (a) Each student should select one M&M from his or her bag of M&M's. As a class we have now conducted \_\_\_\_\_ experiments. Use these experiments to answer the following questions.
- What is the empirical probability of selecting a yellow M&M from a bag of M&M's?
  - What is the empirical probability of selecting a red M&M from a bag of M&M's?
  - What is the empirical probability of selecting an orange M&M from a bag of M&M's?
  - What is the empirical probability of selecting a blue M&M from a bag of M&M's?
  - What is the empirical probability of selecting a brown M&M from a bag of M&M's?
  - What is the empirical probability of selecting a green M&M from a bag of M&M's?
- (b) Each student should replace the M&M he or she selected. Then he or she should select another M&M. As a class we have now conducted \_\_\_\_\_ experiments. Use these experiments to answer the following questions.
- What is the empirical probability of selecting a yellow M&M from a bag of M&M's?
  - What is the empirical probability of selecting a red M&M from a bag of M&M's?
  - What is the empirical probability of selecting an orange M&M from a bag of M&M's?
  - What is the empirical probability of selecting a blue M&M from a bag of M&M's?
  - What is the empirical probability of selecting a brown M&M from a bag of M&M's?
  - What is the empirical probability of selecting a green M&M from a bag of M&M's?