

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**MAT 1460- \_\_\_\_\_ Homework**  
**Section 8.3**

Support your answer by showing your work.

1. An experiment consists of tossing a coin and picking a day of the week. Write the sample space of the experiment.

2. Greg is painting a room. He can use either a flat or semi-gloss paint. For each type of paint, he can choose either a grey, purple, or blue color.

a) Write out the sample space.

b) What is the probability that he picks a flat paint?

c) What is the probability that he picks a grey color or semi-gloss paint?

3. A jelly bean is randomly taken from a bag that contains 5 red, 9 white, and 2 blue jelly beans. Find the probability of the following:

a) The jelly bean is blue.

b) The jelly bean is not red.

c) The jelly bean is red or blue.

d) The jelly bean is neither red nor blue.