NAME:_____

Unit 10 Hand In Assignment 1
Mid Unit Review

1) **Mr. Gonsalvez rolls a 10-sided die, containing the numbers 0-9. Determine the theoretical probability of the following:**

a. P(7) =

b) P(even number)

c) P(<7)

d) P(1,4,6,8)

e) P(an integer)

e) P(> 12)

2) **Ms. Stout rolled a regular six-sided die 16 times and came up with the following experimental results:**

$P(EvenNumber) = \frac{9}{16}$, $P(lessthan4) = \frac{8}{16}$, $P(exactly6) = \frac{1}{16}$

a) Which result was exactly equal to its THEORETICAL PROBABILITY?

b) Which result was close to its THEORETICAL PROBABILITY?

c) Which result was far from its THEORETICAL PROBABILITY?

3) **A bag contains three red marbles, five green marbles, five orange marbles and seven black marbles. Peter picks one marble then places it back.**

a. Write P(green) as a fraction, percent, AND decimal:

b. Predict the number of green marbles that will be chosen if the experiment is conducted 40 times.

4) **Two four sided dice numbered 1-4 are rolled.**

a. On the back, create a chart showing all possible sums for this experiment.

b. What is the probability that the sum of the rolls will be 5?