MA 110 Quiz 9 ANSWERS

Multiple Choice. Choose the one alternative that best completes the statement or answers the question. Put the **letter** of your answer in the box provided.

D

1. Two fair 6-sided dice are rolled at once, and the faces that show up are observed. The probability that the sum of the faces showing is 10 is

a. 0	d. 1/12	g. 1/3
b. 1/36	e. 1/9	h. 1/2
c. 1/18	f. 1/6	i. 1

Event: sum 10 = {(4,6), (6,4), (5,5)} Size = 3

Prob(sum 10) = 3/36 = **1/12**

F

2.   A box contains 3 red marbles and 2 white marbles. Two marbles are drawn at random, but the first is **not** replaced before drawing the second. The probability that both drawn are red is

a. 1/10	d. 4/25	g. 9/25
b. 1/5	e. 6/25	h. 2/5
c. 3/25	f. 3/10	i. 3/5

Prob(RR) = Prob(R) x Prob(R|R) = (3/5) x (1/2) = **3/10**

A/C

3. Which bar graph below best represents the data? (All are based upon the same data on 87 student test scores.) (Accept either A or C.)

A

B

C

D