

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.

E 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 9 is

a. 0	Event: $\text{sum } 9 = \{(4,5), (5,4), (3,6), (6,3)\}$	d. $1/12$	Prob(sum 9) = $4/36 = 1/9$
b. $1/36$	Size = 4	e. $1/9$	g. $1/3$
c. $1/18$		f. $1/6$	h. $1/2$
			i. 1

A 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 white is

a. $1/10$	Prob(WW) = Prob(W) x Prob(W W) = $(2/5) \times (1/4) = 1/10$	d. $4/25$	g. $9/25$
b. $1/5$		e. $6/25$	h. $2/5$
c. $3/25$		f. $3/10$	i. $3/5$

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

