

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

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Math 130

Quiz 3

1. (6 points) A bag contains 8 scrabble letters. The letters in the bag are:

$E_1$   $K_5$   $J_8$   $Q_{10}$   $P_3$   $C_3$   $G_2$   $I_1$

The procedure is to draw a single letter from the bag without looking in the bag. The number next to each letter tells you how many points each letter is worth. Let  $A$  be the event that a vowel is drawn, and let  $B$  be the event that a letter worth 5 or more points is drawn. Find the following:

a)  $A$

b)  $B$

c)  $S$

d)  $P(A)$

e)  $P(B)$

f)  $P(S)$

2. (2 points) Suppose you are about to flip a coin 3 times. Let  $T$  be the event that coin lands on heads exactly 2 times. Find

a)  $T$

b)  $P(T)$

3. (2 points) In order to figure out what the probability of getting a blackjack is in the game of blackjack, Greg played 730 hands and received a blackjack 40 times. What is the probability of being dealt a blackjack?