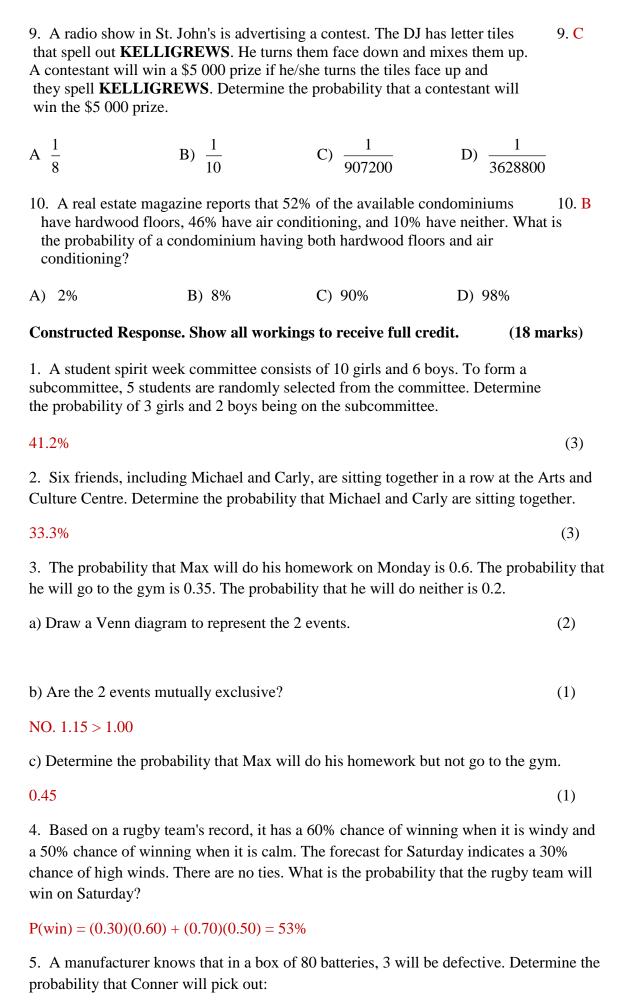
Math 3201 - Unit 3 Sample Test		Name:		
Multiple Choice. Place the letter of the correct response in the space provided at the right. Please use CAPITAL letters. (10 marks)				
1. Candace has 11 coins in her pocket: 1 loonie, 4 quarters, 3 dimes and 3 nickels. She pulls out a coin at random. What is the probability that the coin is a quarter? 1. A				
A) $\frac{4}{11}$	B) $\frac{4}{7}$	C) $\frac{7}{4}$	D) $\frac{11}{4}$	1. A
2. Given the following probabilities, which event is most likely to occur?				
A) $P(A) = 0.2$	B) $P(B) = \frac{1}{6}$	C) $P(C) = 0.3$	D) $P(D) = \frac{1}{3}$	
3. Julie draws a card at random from a standard deck of 52 playing cards. Determine the odds in favour of the card being a heart.				
A) 3:1	B) 1:3	C) 1:1	D) 3:13	3. B
4. Charlotte notices that pomegranates are on sale at a local grocery store. The last eight times that they were on sale, they were available only three times. Determine the odds against pomegranates being available this time.				
A) 3:5			D) 5:3	4. D
5. Cassie tosses four coins. Determine the probability that they all land as tails.				5. A
A) 6.25%	B) 12.50%	C) 18.75%	D) 25.00%	
6. Which pair of events are dependent? 6. C				
(The dice is six-sided, numbered 1 to 6. The deck of cards is a standard deck of 52.)				
A) Event 1: Rollin Event 2: Rollin				
B) Event 1: Drawing an odd card and putting it back. Event 2: Drawing another odd card.				
C) Event 1: Drawing a spade and not replacing it. Event 2: Drawing another spade.				
D) Event 1: Rolling Event 2: Rolling	g an even number g an odd number			
7. Manny draws a card from a standard deck of 52 cards, and then draws another card. Determine the probability that both cards are spades, if the first card is not replaced.				
A) $\frac{1}{16}$	B) $\frac{1}{2}$	C) $\frac{1}{17}$	D) $\frac{33}{68}$	7. C

with the coin?

8. You have a six-sided die with each side numbered one through six. You also have a coin with heads on one side and tails on the other. What is the probability of rolling a number greater than 4 with the die and tossing heads

B) $\frac{1}{6}$ C) $\frac{1}{4}$

8. **B**



a) 2 defective batteries $\frac{3}{80} \cdot \frac{2}{79} = \frac{6}{6320} = 0.09\%$ (2)

b) 2 non-defective batteries
$$\frac{77}{80} \cdot \frac{76}{79} = \frac{5852}{6320} = 92.6\%$$
 (2)