CI 1	Probability and Set Theor	y			
Fo de	r Problems 1– 4, write each statement in set nota scriptions of the sets to the right to complete each	ation. L ch stat	Jse the ement.		
1.	the intersection of sets A and B	A =	{21, 23	8, 25, 27, 29}	
2.	the complement of set A	, 27, 30} , 22, 23, 24, 29 , 29, 30}	27, 30} 22, 23, 24, 25, 26, 29, 30}		
3.	the union of sets <i>A</i> and <i>B</i>				
4.	the number of elements in set A				
Re	fer to the descriptions of the sets above to find th	he prol	oabilitie	s in Problems	s 5 –7.
5. 6.	What is the probability that a number in <i>U</i> is <i>not</i> in <i>A</i> ? What is the probability that a number in <i>U</i> is in $A \cup B$?				
7.	What is the probability that a number in <i>U</i> is <i>not</i> in <i>A</i> or <i>B</i> ?				
8.	A travel agent is offering a vacation package. Participants choose the type of tour, a meal plan, and a hotel class from the chart to the right. How many different vacation packages are offered?	W	Tour /alking Boat icycle	Meal Restaurant Picnic	Hotel 4-Star 3-Star 2-Star 1-Star
9.	There are 8 marbles in a bag, all of different colors. many orders can 4 marbles be chosen?	. In hov	V		
10.	Gil's padlock can be opened by entering 3 digits in the right order (digits can be repeated)				
1.	Mrs. Marshall has 11 boys and 14 girls in her kindergarten class. She decided to ask 2 boys to pass out snacks. In how many ways can she select 2 boys? Show your calculations.				
12.	Later in the day Mrs. Marshall decides to ask 3 students to carry papers to the office. What is the probability that the 3 students were all girls? Show your calculations.				
13.	Follow up to question #12. What is the probability that at least 2 of the student Show your calculations.	s were	girls?		