## **Easting Probability and Set Theory Practice and Problem Solving: A/B**

## For Problems 1–6, write each statement in set notation. Use the descriptions of the sets to the right to complete each statement.

1.	the intersection of sets A and B	A =	{21, 23	8, 25, 27, 29}	
		B=	{21, 24	l, 27, 30}	
2.	the complement of set A	<i>U</i> =	{20, 21 26, 2	, 22, 23, 24, 25, 7, 28, 29, 30}	
3.	the union of sets A and B				
4.	the complement of set B				
5.	the number of elements in set A			-	
6.	the number of elements in set B			-	
7.	Define set C so that C is a subset of set A.				
8.	Define set <i>D</i> so that <i>D</i> is a subset of set <i>B</i> .				
For abc	Problems 9 and 10, use the descriptions of the sets	s in the	box		
9.	Create a Venn diagram to represent sets A, B, and U.				
10.	Describe the parts of the Venn diagram that correspond to 1–4 above.				0
	1)	(		$\left( \right)$	$\sum$
	2)				/
	3)				
	4)				
Ref to f	er to the descriptions of the sets above and the Ver ind the probabilities in Problems 11–14.	nn diag	ram		
11.	Use set notation to write a fraction giving the probability that a number chosen from the universal set will be in set <i>A</i> . Fill in the numbers.				
12.	What is the probability that a number in <i>U</i> is not in A?				
13.	What is the probability that a number in <i>U</i> is in $A \cup B$ ?	<b>)</b>			

14. What is the probability that a number in U is not in A or B?