Nam	ie:					Date:
Elementary Statistics						HW 4.2 part 1
				hance of rain for sonable interpre		e region. Based on
	a. 1/5 of the	e author's regior	n will get rain t	today		
	b. In the au	thor's region, it	will rain for 1/	5 of the day.		
	c. In the aut	thor's region, the	ere is a 1/5 pro	obability that it v	vill rain at some p	oint during the day.
2. C	ircle the followi	ng values that ar	e NOT probab	oilities?		
	5:2	3/7	7/3	-0.9	0.123	
	123/456	456/123	0	1		
4. Y	ou roll a single o	lie. What is the	probability tha	at the outcome is	s 7?	
For o	questions 5-7, e	xpress the indic	ated degree o	f likelihood as a	probability value	between 0 and 1:
5. W	eather.com ind	licated that ther	e is a 60% cha	nce of snow in th	ne region.	
	/hen rolling a pa ome is a 12.	air of dice at the	Bellagio Casin	o in Las Vegas, tl	nere is 1 chance ir	າ 36 that the
7. B	enjamin Frankliı	n said that death	is a certainty	of life.		

8. The following table describes how many males and females are left handed and right handed out of a random sample of 121 people.

	Handed		
	Left	Right	
Female	7	46	
Male	5	63	

- a. Find the probability of selecting a male from this sample.
- b. Find the probability of selecting a female from this sample.
- c. Find the probability of selecting a person from this sample that is left handed.
- d. Find the probability of selecting a person from this sample that is right handed.
- 9. The Microsort's YSORT gender-selection technique is designed to increase the likelihood that a baby will be a boy. In a clinical trial of this technique, 291 births consisted of 239 baby boys and 52 baby girls. Based on these results, what is the probability of a boy born to a couple using Microsort's YSORT gender selection method? Does it appear that this technique is effective in increasing the likelihood that a baby will be a boy?

- 10. When a couple has three children, we can assume that there are 8 possible outcomes that are equally likely: GGG, GGB, GBB, BBB, BBG, BGB, BGG
  - a. Find the probability that if a couple has 3 children, there is exactly one girl.
  - b. Find the probability that if a couple has 3 children, there are exactly two girls.