











Nine members of a baseball team are randomly assigned field positions. There are three outfielders, four infielders, a pitcher, and a atcher. Given that the regular outfielders have been place in the outfield, determine the probability that Troy will be assigned to play
 a) catcher
 b) outfielder

2. A standard deck of cards is shuffled and three cards are selected.
a) What is the probability that the third card is either a red face card or a king if the king of diamonds and the king of spades are selected as the first two cards?

b) Does this probability change if the first two cards selected are the queen of diamonds and the king of spades? Explain. A recent survey of a group of students found that many participate in baseball, football, and soccer.
 The Venn diagram below shows the results of the survey.



b) c) d) e) f) How many students participated in the survey? How many of these students play both soccer and baseball? How many play only one sport? How many play football and soccer? How many play al three sports? How many do not play soccer?

Answer Clues:

2a) 12% b) no 3a) 82 b) 10 c) 56 d) 9 e) 6 f) 50 4a) 95% b) 5% c) 45% d) 50% e) 35%

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A survey of 1000 television viewers conducted by a local television station produced the following data:		
· ·	-	40% watch the news at 1200
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	•	60% watch the news at 1800
	•	50% watch the news at 2300
	•	25% watch the news at 1200 and at 1800
	•	20%watch the news at 1200 and 2300
		20% watch the news at 1800 and 2300
		10% watch all three news broadcasts
	•	10% watch an time news broadcasts
	a)	What percent of those surveyed watch at least one of these programs?
	b)	What percent watch none of these news broadcasts?
	c)	What percent view the news at 1200 and at 1800, but not at 2300?
	d)	What percent view only one of these three shows?
	e)	What percent view exactly two of these shows?
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