## Statistics: Chapter 4 Review

- 1. No. One of the probabilities is less than zero
- 2. No, the sum of the probabilities is .85, which is not equal to 1.

3	a b.	X=amount won P(X) \$3.75 \$4.15			0 1/2		5 1/4		10 1/4
	D. С.								
4	a.	X= profit P(X)			100 .997		-9900 .001	)	-4900 .002
	b. c.	\$80 \$386.80							
5	a.	Yes b.	No		C.	Yes		d.	No
6	a b c. d. e.	.000179 .999 1 .0979 .000819							
7	а	.0576	b	.136		С	.942	d	.194
8	a. b. c. d. e. f.	Yes 2, 1.3 yes. Usual values are between6 and 4.6. 7 is not between these values .0328 .121 .0000737							
9	a. b. c. d.	Yes 10, 3 Yes; Usual values are between 4 and 16. 25 is more than 16 no; 15 is between the usual values of 4 and 16							
10	a b	170, 10.6 210 Yes; Usual values are between 148.8 and 191.2 210 is higher than 191.2							
	c. Since there seems to be a higher incident of accidents in New York when compared with the the statistic of 34%. You would expect to ha between 148.8 and 191.2 if the actual accident rate was actually 34								