Part II **Practice Problems**

A. The table below shows 200 shirts in terms of colors and size. (All answers in percentage and round in 2 decimal)

	Blue	Red	White
Large	50 40 20		
Small	40 20 30		

If one shirt is randomly selected then find the following probability that

1) It is red or small 2) It is white or large 3) It is white or blue 4) It is red or white or large

5) If two shirts are randomly selected then find the probability that both shirts are small.

6) If two shirts are randomly selected then find the probability that both shirts are non white. All answers. on page 6.

Practice: It is cold and dark and way out there, there are two rooms, in the first room we have 4 men and 3 women, and in the second room 4 men and 5 women. If one person left the first room and went into the second room and then one left the second room, then

- a) List all possibilities of the person who have left the second room by drawing a tree diagram. **Ans**:
- b) Find the probability that the person who left the second room is man. Ans: 16/35
- c) Find the probability that the person who left the second room is woman. Ans: 19/35
- **B**. Let **Random Variable X** = the number of digital **camcorders sold** in a given day at an electronic store.

		В		P(x)%									
х	f												
3	8												
4	11												1
5	14												
6	19												
7	20												
8	12												
9	9												
10	7				3	4	5	6	7	8	9	10	
		1.00 = ?											
		Mean = 6	5.39										

- Complete the table, draw probability distribution (Answers/P.16) and find the probability that,

- 1. At least there will be 7 camcorders sold in a given day. Ans: 48 %
- 2. At most there will be 8 camcorders sold in a given day. Ans: 84 %
- 3. Find the mean of number of camcorders sold in a given day. Mean = 6.39

C. A \$.5 slot machine in a casino has a winning prize of \$10 for each play with winning probability 1/100. What are the expected results for the players and the house each time the game is played. How much will be the expected to generate revenue if a typical casino has 100 slot machines and each slot machine is played 1000 times a day and 360 days Ans: \$142,200 per year.

Counting

1) If a password should consist of 2 letters first and 3 digits after, then how many different 1)	676,000
 2) If a password should consist of non-repeating of 2 letters first and non-repeating 3 digits after, then how many different passwords are possible?) 468,000
<u>LLDDD</u>	
3) How many different 3-letter words can be written ending with vowels (a,e,i,o,u)?	3) 3,380
4) How many different 3-letter words can be written not ending with vowels (a,e,i,o,u)?	4) <i>14,196</i>
5) How many different 3-digits odd number can be written by using 0,2,1,3,7,8 digits?	5) 90
6) How many different 3-letter words can be written ending with letters (e, n, d)?	6) 2,028
 7) How many different 3-digits even number can be written by using 0,2,1,3,7,8 digits? 	7) 90
8) In how many ways Joe can dress up, if he has 6 shirts, 7, pants, and 5 pair of shoes?	8) <i>210</i>
 9) If a password should consist of non-repeating of 3 letters first and non-repeating 2 digits after, 9) <i>I</i> then how many different passwords are possible? 	',404,000
,,,,	
10) If a password should consist of 2 letters first and 2 digits after, then how many different passwords are possible?	10) 67,600
11) How many different 3-letter words can be written ending with letters (a,c,e,t,o,p)?	11) 4,056
12) How many different 3-digits even number divisible by 5 can be written by using 0,2,1,3,7,5,8 digits?	12) 42
13) How many different 3-digits number divisible by 5 can be written by using 0,2,1,3,7,5,8 digits?	13) 84
14) How many different area codes can we have?	14) <i>1000</i>
777	

D. In general there is 64% chance to pass DMV test for the first time, and if there are 5 applicants taking the test for the first time, complete the below table and then answer the question, X = the number of applicants passing DMV test

X	P(x)	
0		
1		
2		
3		
4		
5		

Draw the probability distribution of number of applicants that will pass the test for the first time

P(X)						
40.0/						
40 %						
30 %						
20.0/						
20 %						
10 %						
		1				
	0	1	2	3	4	5

(All answers in percentage and round in 2 decimal)

- 1. Find the probability that only 2 applicants will pass the test for the first time.
- 2. Find the probability that only 4 applicants will pass the test for the first time
- **3**. Find the probability that at least 2 applicant will pass the test for the first time.
- 4. Find the probability that at a at most 3 applicant will pass the test for the first time.
- 5. Find the expected number of applicants that will pass the test for the first time.

E. If only 40% of university students graduate in 4 years, and we know 6 of friends who are going to university, then

complete a probability distribution table based on X= number of our friends who will graduate in 4 years from university. Draw the probability distribution of number of applicants that will pass the test for the first time. Also answer question at the end of the table



(All answers in percentage and round in 2 decimal)

- 1. Find the probability that at least 3 will graduate in 4 years.
- 2. Find the probability that at most 4 will graduate in 4 years.
- 3. Find the probability that none will graduate in 4 years
- 4. Find the probability that all lucky six will graduate in 4 years.
- 5. Expected number of students that will graduate in 4 years.
- 6. Standard deviation of number of students that will graduate in 4 years.

Finding Area under SNPD:

Be sure to shade the proper region. Use the table and find the area that corresponds to the given probability.

1	P(-1.75 < Z) =	2	P(Z < 1.08) =	3	P(.5 < Z < 1.5) =	4	P(-2.11 < Z < 1.55) =
5	P(-1.8 < Z < 2.08) =	6	P(1.57 > Z) =	7	P(-1.17 < Z < 1.34) =	8	P(-2.0 < Z <5) =
9	P(3.884 < Z) =	10	P(Z > -1.4) =	11	P(-1.8 < Z <8) =	12	P(1.2 < Z < 1.6) =
An	swers on page 7						

- **F**. If the average life of "Die Easy" batteries is 60 months with st. dev. of 10 months. Assuming that data are normally distributed then what percentage of batteries last
- 1. Between 48 and 46 months
- 3. Between 66 and 75 months
- 5. More than 52 months
- 7. More than 85 months

- 2. Between 55 and 65 months
- 4. Less than 54 months
- 6. Less than 68 months
- 8. Within 10 months of the mean
- 9 Find the time that separates the top 20% of batteries that last longer than the rest.
- 10. Find the time that separates the bottom 5% of batteries that last less than the rest.



- **G**. If the average price for textbooks in a college university is \$75 with st. dev. of 20. Assuming that data are normally distributed then what percentage of college books is,
 - 1. Between 60 and 80 dollars
 - 3. Between 80 and 110 dollars
 - 5. More than 50 dollars
 - 7. More than 100 dollars

- 2. Between 65 and 67 dollars
- 4. Less than 70 dollars
- 6. Less than 90 dollars
- 8. Within 25 dollars of the mean
- 9. Find the dollar value that separates the top most 8% of expensive of textbooks.
- 10. Find the dollar value that separates the lowest 25% inexpensive of textbooks.



Answers

A.	1) 65%	2) 70%	3) 70%	4) 80%	5) 20.13%	6) 56.16%
a)	$\int \frac{4/7}{m} \times \frac{5/10}{m} = \frac{20}{70} =$	$=\frac{10}{35}$	$\int \frac{3/7}{w} \times \frac{4/10}{m} = \frac{1}{7}$	$\frac{2}{0} = \frac{6}{35} \qquad \Longrightarrow \qquad \qquad$	$\int b) \frac{10}{35} +$	$\frac{6}{35} = \frac{16}{35}$
u)	$\left \frac{4/7}{m} \times \frac{5/10}{w} = \frac{20}{70}\right = \frac{20}{70}$	$=\frac{10}{35}$	$\left \frac{3/7}{w} \times \frac{6/10}{w} = \frac{1}{7} \right $	$\frac{8}{0} = \frac{9}{35} \qquad \Longrightarrow \qquad $	$\left(c\right)\frac{10}{35}+$	$\frac{9}{35} = \frac{19}{35}$

			В	
X	f	P(x)%	x P(x)	X ² P(x)
3	8	0.08	0.24	0.72
4	11	0.11	0.44	1.76
5	14	0.14	0.70	3.50
6	19	0.19	1.14	6.84
7	20	0.20	1.40	9.80
8	12	0.12	0.96	7.68
9	9	0.09	0.81	7.29
10	7	0.07	0.70	7.00
	100	1.00	6.39	44.59
М	ean = 6	.39	St. Dev =	= 1.94

Outcome	X	p(x)	x p(x)
Win	\$10	1/100	\$.10
Lose \$	5	99/100	\$495
		$\sum p(x) = 1?$	$\sum xp(x) = \$395$
(.395)(1000))(100)(360)	= \$14,220,000	

Counting

- 1) If a password should consist of 2 letters first and 3 digits after, then how many different passwords are possible? 2) 676,000 $26 \times 26 \times 10 \times 10 \times 10 = 676,000$
- 2) If a password should consist of non-repeating of 2 letters first and non-repeating 3 digits after, then how many 1) *468,000* different passwords are possible?

 $26 \times 25 \times 10 \times 9 \times 8 = 468,000$

- **3)** How many different 3-letter words can be written ending with vowels (a,e,i,o,u)? $26 \times 26 \times 5 = 3,380$ **3)** 3,380
- 4) How many different 3-letter words can be written not ending with vowels (a,e,i,o,u)? $26 \times 26 \times 21 = 14,196$ 4) 14,196
- 5) How many different 3-digits odd number can be written by using 0,2,1,3,7,8 digits? 5) 90

 $5 \times 6 \times 3 = 90$

6) How many different 3-letter words can be written ending with letters (e, n, d)? 6) 2,028

$$26 \times 26 \times 3 = 2,028$$

7) How many different 3-digits even number can be written by using 0,2,1,3,7,8 digits? 7) 60 $5 \times 6 \times 3 = 90$

Pratice Problems Part 2 03/10/2009

8) In how many ways Joe can dress up, if he has 6 shirts, 7, pants, and 5 pair of shoes?	8) 210
$6 \times 7 \times 5 = 210$	
9) If a password should consist of non-repeating of 3 letters first and non-repeating 2 digits after, then how many different passwords are possible?	9) 1,404,000
$26 \times 25 \times 24 \times 10 \times 9 = 1,404,006$	
10) If a password should consist of 2 letters first and 2 digits after, then how many different passwords are possible? $26 \times 26 \times 10 \times 10 = 67600$	10) 67,600
$20 \times 20 \times 10 \times 10 - 07,000$	
11) How many different 3-letter words can be written ending with letters (a,c,e,t,o,p)? $26 \times 26 \times 6 = 4,056$	11) 4,056
12) How many different 3-digits even number divisible by 5 can be written by using 0,2,1,3,7,5,8 digits? $6 \times 7 \times 1 = 42$	12) 42
13) How many different 3-digits number divisible by 5 can be written by using 0,2,1,3,7,5,8 digits? $6 \times 7 \times 2 = 82$	13) 84
14) How many different area codes can we have?	14) <i>1000</i>
$10 \times 10 \times 10 = 1000$	

	D	
X	P(X)	1. P(2) = .1911 = 19.11%
0	.0061	2. P(4) = .3019 = 30.19%
1.053	7	3. P(at least 2)=.1911 + .3397 + .3019 + .1074 = .9401 = 94.01%
2.191	. 1	4. P(at most 3)=.0061 + .0537 + .1911 + .3397 = .5906
3.339) 7	5. $\mu = 3.2$.
4.301	. 9	6. $\sigma = 1.07$
5.107	4]

Е

X	P(X)	1 P(at least 3) = 2765, 1282, 0269, 0041- 4	557
0	.0467	- 1.P(a1 lease 3) = .2765 + .1362 + .0369 + .0041 = .432.P(at most 4) = 1382 + .2765 + .3110 + .1866 + .046	557 - 6 7 - 6
1.186	6	2 P(0) = 0.467 - 4.67%	
2.311	0	$\int \frac{1}{2} $	
3.276	5	$5 \mu = 24$	
4.138	2	$\int \sigma = 12$	
5.036	9	0.0 - 1.2	
6 004	1		

1	.9599	2	.8599	3	.2417	4	.9220
5	.9453	6	.9418	7	.7889	8	.2857
9	.0001	10	.9192	11	.1760	12	.0603



	123			456			7	8	9	10
F	3.43 %	38.30	20.75	27.43	78.81	78.81	0.62	68.26	X = 68.40	X = 43.55
G	37.21 %	3.61	36.12	40.13	89.44	77.34	10.56	78.88	X = 103.20	X =61.40

Expected Value Problems

Hint: To find the expected value use the formula $\sum x \cdot p(x)$

1) In a game, you have What is your expecte	a 1 probability of winni	ng \$116 and a 44 probab	bility of losing \$7.	1)
A) -\$4.42	B) \$2.58	C) -\$6.84	D) \$9.42	
2) A contractor is considued to bad weather, str	dering a sale that promi ikes, and such) of \$18,0	ses a profit of \$38,000 w 00 with a probability of	7 vith a probability of 0.7 or a los 0.3. What is the expected prof	ss 2) ĭt?
A) \$21,200	B) \$20,000	C) \$26,600	D) \$39,200	
3) Suppose you pay \$3. rolling a 5 or a 4, nothing	00 to roll a fair die with	the understanding that your expected value of vo	you will get back \$5.00 for ur gain or loss?	3)
A) -\$3.00	B) \$5.00	C) \$3.00	D) -\$1.33	
4) Suppose you buy 1 titicket is to be \$5000. W	icket for \$1 out of a lotto hat is your expected va	ery of 1000 tickets where lue?	e the prize for the one winning	g 4)
A) \$40.00	B) \$4.00	C) \$0.40	D) -\$0.40	
 5) A 28-year-old man p probability that he will policy? A) -\$158.90 	ays \$159 for a one-year live through the year is B) \$139,916.00	life insurance policy wi 0.9994, what is the expe $C_{0} = 75.00	th coverage of \$140,000. If the cted value for the insurance D) \$84.00	e 5)
-, 4100.70	-, 410,,, 10.00	-) 4,0.00		
6) The prizes that can b	e won in a sweepstakes	are listed below together	r with the chances of	6)

winning each one:\$3500 (1 chance in 8100); \$1900 (1 chance in 5400); \$700 (1 chance in 3400); \$400 (1 chance in 2500). Find the expected value of the amount won for one entry if the cost of entering is 66 cents.

A) -\$0.49 B) \$0.49 C) 4.9 D) -\$4.9

7) On a multiple-choice test, a student is given five possible answers for each question. The student
7) _____
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8) _____
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8) _____

A) 0 B) 0.25 C) 0.133 D) -0.33

8) Suppose also that on one of the questions you can eliminate two of the five answers as being wrong.8) _____If you guess at one of the remaining three answers, what is your expected gain or loss on the question?

A) 0 **B**) 0.167 **C**) 0.133 **D**) 0.63

9) A dairy farmer estimates for the next year the farm's cows will produce about 25,000 gallons of milk. **9**) _____ Because of variation in the market price of milk and cost of feeding the cows, the profit per gallon may vary with the probabilities given in the table below. Estimate the profit on the 25,000 gallons.

	Gain per gallon	\$1.10	\$0.9	0 \$0.7	0	\$0.4	0	\$0.0	0	-\$0.10
	Probability	0.30	0.38 0.2	0 0.06 0.	04 0.	.02				
A) \$21,850	B) \$20,	508	C)	\$20,580)		D) \$20,8	850	

10) At many airports, a person can pay only \$1.00 for a \$100,000 life insurance policy covering the duration of the flight. In other words, the insurance company pays \$100,000 if the insured person dies from a possible flight crash; otherwise the company gains \$1.00 (before expenses). Suppose that past records indicate 0.45 deaths per million passengers.

How much can the company expect to gain on one policy?

A) \$0.895	B) \$0.955	C) \$0.95	D) \$0.855
On 100,000 policies?			
A) \$89,500	B) \$95,500	C) \$95,000	D) \$85,500

11) A construction company wants to submit a bid for remodeling a school. The estimated bid **11**) _____ cost \$4000 for construction company. If the bid were accepted, the company would have revenue of \$26,000. Would you advise the company to spend the \$4000 if the bid has only 20% probability of being accepted? Explain your reasoning.

A) \$	2.000	B) \$1.500	C) \$1,000	D) \$1.200
 γ Ψ	-,000	\mathbf{z}	$0, \psi_{1}, 000$	D) \ 1 , 2 00

				Ex	cpected Va	alues				
				_						
	1-Game	B ()		2-	Contract	or			3-Fair Die	
X	p(x)	x . P(x)		X	p(x)	x . P(x)		X	p(x)	x . P(x)
109	0.022	2.422		38000	0.7	26600		2	0.333	0.667
-1	0.978	-6.844		-18000	0.3	-5400		-3	0.667	-2.000
	1	-4.422				21200			1.000	-1.333
	41.044.000				F 1 36 a 1					
	4-Lottery	y D(y)			5- Lite	insurance				
X 4000	p(x)	X.P(X)		Die	X	$p(\mathbf{x})$	X.P(X)			
4999	0.001	4.999		Die	139841	0.0006	83.9046			
- 1	0.999	-0.999		Survive	-159	0.9994	-156.9046			
		4				1	-74.9046			
6.9	Swoonsta	kos								
0- 3 V										
A 3/00 3/	P(^)	∧ · ⊢ (X)								
1800 3/	0.00012	0.43202								
600 3/	0.00019	0.33173								
300 34	0.00029	0.20309								
-0.66		-0 6593								
0.00	0.00000	0.0000								
]	0.40303								
	7 - Multin	le choice				8 - Multi	inle choice			
	X	P(x)	X*P(X)			X	P(x)	X*P(X)		
Correctly	1	0.2	0.2		Correctly	1 000	0.333	0.333		
Uncorrectly	-0.25	0.0	0.2		Uncorrectly	-0.250	0.667	-0 167		
		0.0	-U.Z					0.101		
	0.20	0.8	-0.2		,	0.200	1	0.167		
	0120	1	-0.2 0				1	0.167		
		1	0.2				1	0.167		
		1	0.2				1	0.167		
9 - 0	Gallon of	0.8 1 Milk	0.2			10	1 - Plane Cra	0.167 sh		
9 - (X	Gallon of P(x)	1 Milk X*P(X)	0			10	1) - Plane Cra	0.167 sh		
9-(X 1.1	Gallon of P(x) 0.3	0.8 1 Milk X*P(X) 0.33	0			10 X	1 - Plane Cra P(x)	0.167 0.167 sh X*P(X)		
9-0 X 1.1 0.9	Gallon of P(x) 0.3 0.38	0.8 1 Milk X*P(X) 0.33 0.342	0		No Crash	10 X -1	1 - Plane Cra P(x) 0.9999996	0.167 sh X*P(X) -1		
9 - (X 1.1 0.9 0.7	Sallon of P(x) 0.3 0.38 0.2	0.8 1 Milk X*P(X) 0.33 0.342 0.14	0		No Crash Crash	10 X -1 99999	1 - Plane Cra P(x) 0.9999996 0.00000045	0.167 sh X*P(X) -1 0.045		
9 - (X 1.1 0.9 0.7 0.4	Gallon of P(x) 0.3 0.38 0.2 0.06	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024	0		No Crash Crash	10 X -1 99999	1 - Plane Cra P(x) 0.9999996 0.00000045 1	0.167 0.167 sh X*P(X) -1 0.045 -0.955		
9 - (X 1.1 0.9 0.7 0.4 0	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0	0		No Crash Crash Passenge	10 X -1 99999 er'loss is A	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955		
9-0 X 1.1 0.9 0.7 0.4 0 -0.1	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002	0		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.0000045 1 Airline gain=\$ 0000*.955=95,4	0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - 0 X 1.1 0.9 0.7 0.4 0 -0.1	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834	0		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 Plane Cra P(x) 0.99999996 0.00000045 1 Airline gain=\$ 0000*.955=95,9	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - 0 X 1.1 0.9 0.7 0.4 0 -0.1 2500	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850	0		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$ 0000*.955=95,	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - 0 X 1.1 0.9 0.7 0.4 0 -0.1 2500	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850	0		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$ 0000*.955=95,9	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - (X 1.1 0.9 0.7 0.4 0 -0.1 2500	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850			No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.0000045 1 Airline gain=\$ 0000*.955=95,5	0.167 sh X*P(X) -1 0.045 -0.955 500		
9 - (X 1.1 0.9 0.7 0.4 0 -0.1 2500	Sallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2	1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850 dding on t	he Job		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$ 0000*.955=95,9	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - (X 1.1 0.9 0.7 0.4 0 -0.1 2500	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2 11 - Bi	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850 dding on t	he Job		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$ 0000*.955=95,3	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - (X 1.1 0.9 0.7 0.4 0 -0.1 2500	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2 11 - Bi	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850 dding on t P(x)	-0.2 0 he Job		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$ 0000*.955=95,0	0.167 0.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - (X 1.1 0.9 0.7 0.4 0 -0.1 2500 Miss	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2 11 - Bi X -4000	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850 dding on t P(x) 0.8	-0.2 0 he Job X*(P(X) -3200		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.0000045 1 Airline gain=\$ 0000*.955=95,5	0.167 o.167 sh X*P(X) -1 0.045 -0.955 0.955 500		
9 - (X 1.1 0.9 0.7 0.4 0 -0.1 2500 Miss Hit	Gallon of P(x) 0.3 0.38 0.2 0.06 0.04 0.02 1 0*.834=\$2 11 - Bi X -4000 22000	0.8 1 Milk X*P(X) 0.33 0.342 0.14 0.024 0 -0.002 0.834 20850 dding on t P(x) 0.8 0.2	-0.2 0 he Job X*(P(X) -3200 4400		No Crash Crash Passenge	10 X -1 99999 er'loss is A 100	1 - Plane Cra P(x) 0.9999996 0.00000045 1 Airline gain=\$ 0000*.955=95,4	0.167 sh X*P(X) -1 0.045 -0.955 500		