	Name: Hour: Da							e:					
			Lesso	on 6.2: E	ay 1: Ti	me for	a Raise		2				
	Mrs. Gallas' employees have been working very hard and it's time she gives them a raise. She is trying to decide if she should give everyone a \$10 raise (add \$10 per hour) or double everyone's wage (multiply by 2). 1. Copy the data collected from yesterday's lesson below.												
	(1.												
previous lesson's data		X	1	5	7	10	15	25					
	1	Probability	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
		Mean: <u>M</u>		•	Standard	Deviation:	5	_					
	2.	To make a and calcula	decision at	oout what r mean and	aise should standard d	l be given, eviation us	complete tl ing your ca	ne tables be liculator.	elow				
a. Option 1: Add \$10 per hour to all employees													
aus the same as	3	X – Old Wage	1	5	7	10	15	25					
	3	Y - New Wage	11	15	17	20	25	35					
	3->	Probability											
कि	5 '	Mean: <u>M</u>	+10	Deviation:	viation: _ C								
How did adding a constant affect the mean and standard deviation? The mean IS added with \$10.													
The standard deviation did not chan													
		Option 1: E	ouble the	wage of all	employees			1	1				
	ROP	X – Old Wage	1	5	7	10	15	25					
JS the	7	Z - New Wage	2	10	14	20	30	50					
	3>	Probability											
Society	2	Mean: <u>AM</u> Standard Deviation: <u>2</u> o											
How did multiplying by a constant affect the mean and standard deviation? BOTH The mean 4 Standard deviation? MULTIPLEA BY 6													
Answe	3. WW	Which opti	on would y	ou prefer?	Why?	11100/7	ip heat	by c	~ .				
WINA	Wy			New Control of the									

Name:		H	lour:	Date:						
Lesson 6.2 Day 1– 7	ransform	ning Prob	ability	Distribut	tions					
Important ideas: Adding the Same to each value Shape: Stays the scentur: add c variability: stays to same	saine	Con	PV: IY	1417/14	same ach value by C ply by C $5)^2 = (20^2)^2$					
Check Your Understanding										
A large auto dealership keeps track of sales made during each hour of the day. Let X = the number of cars sold during the first hour of business on a randomly selected Friday. Based on previous records, the probability distribution of X is as follows:										
Cars sold	0	1	2	3						
Probability	0.3	0.4	0.2	0.1						
Suppose the dealership's manager sold. Let Y = the bonus recesselected Friday. 1. Sketch a graph of the proprobability distribution of year of year of the proprobability distribution of year of ye	bability distry. How do the standard of the provide of the mand is \$75 less	deviation of X heir shapes Mey coffee and hager's net than the bo	and a se compare doughnut profit T donus earn	parate grapes ally Viviantes s to prosper uring the fired. Descri	ective rst hour on a be the shape.					