					of .					
	Nam	e:		<del></del>			Hou	r: Da	te:	
	7	Lesson 6.1: Day 2: How much do you get paid?								
	Te le	22	1						MINI	MM
	20	Way!	,		3				WA	
	Suna	7	•							
	Irom	a pag to	got a dete	rmine yo	and each our wage for	day your bos the day. Let	s (Mrs. 0 the rand	Ballas) draw Iom variable	s a slip of par x = daily wa	per ge (\$
Ĺ	per h		is you	ir wage	for the day?	Add	d			
2		and co	omple	ete the ta	ble below.	Au	a your da	ata to the ta	ble on the bo	ard
201	7	X		1	5	7	10	15	25	
70,		Probal	oility	5/22	2/22	10/22	3/22	. %2	422	
	2	. Calcu	late a	and intere	oret the exp	ected value o			.00	
		X	=	7.5,	If we	draw	man	y mar	iy was	jes,
		the	ave	erage	wage	\$7.50	Value	Distance from mean	(Distance from mean) <sup>2</sup>	Weighted (Distance
	3	. Necai	HOII	rchaptei	i that stan	dard // Stance from		moni incan	nom mean)	from the mean) <sup>2</sup>
/ 8	16.0	the m	ean. (	Complet	e the table to the property in	to calculate	1	-6.5	42.25	9.60
14		distrib	ution		·	•	5	-2.5	6.25	.568
	4	. Interp	ret th	e standa	ırd deviatior	ո.	7	7.5	.25	.114
	140	The	M	ages	typica	ally	10	2.5	6.25	.852
* · · · · ·	Y Y	he n	100	3 4	0.24 + \$7.5	Fran	15	7.5	56.25	0
	5.			•	s she would		25	17.5	306.25	27.8
,	٦.	assigr any a	n wag moun	es so that from \$	at employe 10 to \$20 a	es could get nd all are			Total =	38.934
M	10	equal	ly like	ly. Draw ility distr	a graph to	represent			SD =	
2/4	3/	<u> </u>		9/1/		۱ ۱	***	4		
3		0		9110						
ζ,	6.	What	o Visithe	2.5 probab	<b>o</b> ility that an	<b>20</b> employee m	akes he	tween \$12 :	and \$12 502	
	<b>.</b> 0.	W	att	7 = 1	2.50-1	2 = 0.5	0			
		Hci	an-	+= '	110			=	0.50x10	
		-	J .					The second of the second		

Name:	Hour: Date:									
Lesson 6.1 Day 2- Pro	bability and Continuous Random Variables									
Important ideas: LT#1 Standard I Of a Discrete Pro	peviation LT#2 Probability for b. dist. Continuous random variables.									
0=\\\\\(\(\frac{1}{2}\)\(\(\frac{1}{2}\)\(\frac{1}{2}\)	Pi Find area under curve:  Vi uniform Normal  N(U, 0)									
02=Variance										
Chec	ck Your Understanding									
<ul> <li>The heights of young women can be modeled by a Normal distribution with mean μ = 64 inches and standard deviation σ = 2.7 inches. Suppose we choose a young woman at random and let Y = her height (in inches).</li> <li>1. What type of variable is Y, discrete or continuous? Explain.  Continuous, all heights are possible.</li> <li>2. Interpret the standard deviation.  The heights typically wany by 27 in from the mean height of Win.</li> </ul>										
									3. Find $P(Y \le 63)$ . Interpre	27) 7= Y-M
									Jelin .	Z = 63-69 female is less than or equal to
63 64	= -,37 -> .555/									
4. Find $P(68 \le Y \le 70)$ . Integration										
N(64,	2.7) $Z = \frac{70-64}{2.7} = 2.22 \rightarrow .9868$									
	$Z = \frac{68-64}{2.7} = 1.48 \rightarrow9306$									
64 68 70	,0562									
There is a .0562 prob.	that a randomly selected female is between									