





	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р
54	#2 BON	BONUS The significant change in this scenario is that the company will have to pay the emploee \$42,000 for 28 years (83 - 55) rather than 19 years.														
55		The first step is to recalculate the change in the total amount that must be saved by the company.														
56																ľ
57			Output = P	V "how muc	ch must the co	ompany have sav	ved"									l
58		(\$563,059)						(22)								l
59 60			Inputs:	PMT = \$42,	000 ("annual	payment"); rate	= 6%; n = 28 y	ears (83 - 55)								ľ
61			The seco	ond step i	s to recalc	ulate the ani	nual amour	t that mus	t be saved	to attain	this sav	ings targ	et.			l
62																ľ
63			Output = P	MT "how m	uch must the	company depos	it every year"			NOTICE: E	VERY YEA	R = PMT				ľ
64		(\$7,122)	•			. , .	, ,									ľ
65			Inputs:	FV = \$563,0	)59 ("savings t	arget"); n = 30 y	vears ("will hav	e worked 30 y	ears at the co	mpany"); ra	ite = 6%					ľ
66		THEREFORE, the company must save \$7,122 per year to meet its obligatioins.														
67																
68	#3		Output = P	MT "month	ly payment"				REMEMBE	R: FOR A	LL LOAN	S, DO MO	ONTHLY			l
69		(\$1,572)														ľ
70 71			Inputs:	PV = \$350,0	000 (loan amo	unt); rate = 3.5%	%/12; n = 30*1	2								ľ
71																
73	#4		Output = P	vV "how mu	ch should an ir	vestor pay"; alv	vavs assumes	the investor w	vill buy the bon	d today.						
74		(\$16,221.34)	•			. , ,	,		,	,						ľ
75			Inputs:	FV = \$20,00	00; rate = 7%;	n = 16 years; PN	1T = \$1,000									ľ
76																
77	4 <b>F</b>															
78	#5	(4	Output = P	V "how mu	ch can you bo	rrow", loan amo	ount									ľ
79		(\$377,144.89)	1		000	K 250/ / 12		NOTE *250								
80 81			Inputs:		000 per year ` /12; n = 15*12				allocates an 12 converts a							
82				iale - 3.9%	/ 12, 11 - 13 1 1	<u>~</u>		Dividing by		ininai pay		nontiny pa	ayinent			
83																
84	#6		Output = N	NPV ("net pro	esent value")											
85		\$944,464.67														
86			Input:	Year One		\$80,000		Rate = 8%								
87				Year Two		\$87,000							-			
88 89				Year Three Year Four		\$96,000 \$979,000			me includes in from proceed							
89 90						\$979,000		∓ <b>3000,00</b> 0	, nom proceed	is or semily	property	- 3373,000		tatistics Mr	. Nelson 1/	/1/2013

1	A	В	С	D	E	F	G	Н	1	J	К	L	М	N	0		Р	
01	#7		Output -	IRR ("intenral	rate of return'	')	-	I		-					_			
		4.1% Note: Before the clock starts (time 0), you buy the property for \$875,000.																
92 93	•	4.1%		Year 0						• •								
93 94			Input:	Year O Year One		-\$1,075,000 \$80,000		input the pu	rchase price a	s a negativ	e number,	S going out						
94 95	e .			Year Two		\$80,000			OUND % ANS		FAREST TE	ΝΤΗ						
96				Year Three		\$96,000				-	-							
96 97	•	Year Four				\$96,000 NO input required for "Guess" in function box. \$979,000												
98						<i>+c</i> /												
99																		
100	#8				Year 1	Year 2	Year 3	Year 4										
101		Annual Gross Inco	ome															
102		One-Bedroom Units			\$91,800	\$98,226	\$105,102	\$112,459	Increase each year gross income 7% by multiplying by 1.07									
103		Two-Bedroom Units			\$66,000	\$70,620	\$75,563	\$80,853	Increase each year gross income 7% by multiplying by 1.07									
104		Laundry income			\$750	\$780	\$811	\$844	Increase each year gross income 4% by multiplying by 1.04									
105		Total			\$158,550	\$169,626	\$181,476	\$194,155	Add the thr	ee sources o	of income							
106		Vacancy & Collection Loss (5%)			\$7,928	\$8 <i>,</i> 481	\$9,074	\$9, <b>70</b> 8	Multiply each year annual gross income by 5%									
107		Annual Effective Gross Income			\$150,623	\$161,145	\$172,403	\$184,448	8 Subtract vacancy and collection loss from annual gross income for each year									
108																		
109 110		Annual Expenses	_		¢10.000	¢10.200	¢10.404	¢10 C12			20/ 1							
110	e.	Real Estate Taxe	S		\$10,000	\$10,200	\$10,404	\$10,612		• •		multiplying l	•					
111	e de la companya de la	Insurance Utilties			\$4,000	\$4,240	\$4,494	\$4,764 \$36,751				multiplying I	•					
112	•	Maintenance			\$30,000 \$8,000	\$32,100 \$8,320	\$34,347 \$8,653	\$30,731 \$8,999			•	multiplying l	•					
113	•	Reserves/Other			\$8,000 \$4,000		\$8,055 \$4,326	\$8,999 \$4,499				multiplying l	•					
114 115		Total			\$4,000 \$56,000	\$4,160 \$59,020	\$4,326 \$62,225	\$65,626			-	multiplying l or each year	-					
115		TULAI			<b>300,000</b>	Ş59,020	ŞUZ,ZZS	202,020	Add the five	e sources of	expenses t	or each year	•					
110	e e e e e e e e e e e e e e e e e e e	Annual Net Incom	1e		\$94,623	\$102,125	\$110,178	\$118,822	Subtract tot	al exnenses	from effect	ive gross inc	ome for eac	h vear				
118					φ <i>σ</i> <del>τ</del> ,023	Ψ±02,123	<i></i> ,170	YII0,022	50500000000	ai experises								
119																		
119 120	t i i i i i i i i i i i i i i i i i i i																	

Business Statistics Mr. Nelson 1/1/2013