	А	В	С	D	E	F	G	Н	T	
1	Worksheet for	r Chanter 2	BOC Questi	ons	Ľ	-	0	3/17/2017	-	
2	W OI KSIECE IO	i chapter 2	DOC Questi	0115				5/1//2017		
2	We use DOC	Ougstion 24	to illustrate	a a ma nainta	ahaut th	CADM the	SMI and	Erect For ed	ditional	
3	we use BOC		to mustrate	for Charter		ie CAF M, the	swill, and	Excel. For au	ultional	
4	information o	n Excel, see	the 1001 Kit	for Chapter	2.					
8									Rate o	of Return Ca
9	The following	returns we	re earned on	the market a	and on St	ocks X and Y	during the	alast 5 years:	For th	e Market:
10										Ending
11		Per	centage Retu	irns		Beta Graph, Years 1-5 Only				Price
12	Year	Market	Stock X	Stock Y	ock Y 40%			_		\$100.00
13	1	20%	16%	28%	_ 30	%	100			\$118.00
14	2	8%	8%	8%	- S.		1	_ •Y		\$124.94
15	3	15%	12%	20%		/0				\$140.68
16	4	-6%	-2%	-15%	- 2 ¹⁰	2%				\$128.74
17	5	23%	18%	33%	- ž 0'	%			-	\$154.35
18	6	20%	16%	-70%	ראַ אַ וּי	%			_	\$180.72
19	Avg 1-5	12.0%	10.4%	14.8%	- ž			Sector 1		+- 00=
20				, , .	-20	/0				
21	Reta X.	0.69	From		-30		100/	200/	400/	
21	Beta X.	1.66	helow			-10% 0%	10% 2	20% 30%	40%	
22	Deta 1.	1.00	J Delow		_		Market Ret	urn (%)		
23	Could got bot	as by rogros	sion but on	oosior wow is	to use th	A LINEST fu	notion Cli	aly fy > Statisti		
24	4 Courd get betas by regression, but an easier way is to use the LINEST function. Click IX > Statistical > $\frac{1}{2}$									
25	con uso the de	to to find h	the menu to	gel Dela A –	d also to	find the revi	ad hote ha	sod on voors 2	6	100
20	can use the ua			i exercise, ai	iu aiso to	ind the revi	seu dela da	seu on years 2-	-0.	
27										
20	Data V.	0.60		-LINEST						
29	Deta A: Doto V:	0.09		– Kno	wn_y's	C13:C17			$\mathbf{N} = \{0, 16; 0\}$.08;0.12;-0.)
21	Dela 1.	1.00		Kn	own_x's	B13:B17			1 = {0.2;0.0	8;0.15;-0.0
22				—	Const					· ·
22				—	Conse					
24	SML Analysis			—	Stats				🗾 = logical	
25	+ SIVIL Analysis:									
20	Kisk-iree rate		8.0 <i>%</i>	 Doturne on	arrau th	at docaribos a	straight line	that back fits i	= {0.6853	9325842696(
27	wiarket retur	u.	12.0%	the least so	juares me	ethod.	scraight inte	, that best fits y	rodi uata, taituk	aced by using
3/	-	1	1	¥	wn_x's i	s an optional :	set of x-valu	ies that you ma	ay already know i	in the
				KNO		1.12.12				
38				KNO	I	relationship y	= mx + b.			
38 39					r Formula	relationship y a result =	= mx + b.	0.69	ОК	Cancel
38 39 40					r Formula	relationship y a result =	= mx + b.	0.69	ОК	Cancel
38 39 40 41	r(X) = r(rf	c) + b(1	r(Market) - 1	- 2 r(fr))	Formula	relationship y a result =	= mx + b.	0.69	ОК	Cancel
38 39 40 41 42	r(X) = r(rf	r) + b(1 8.0%	r(Market) - 1 +	r(fr)) 2.7%	Formula =	a result =	= mx + b.	0.69 icted return fo	ок r X.	Cancel
38 39 40 41 42 43	r(X) = r(rf	5) + b(1 8.0%	r(Market) - 1 +	r(fr)) 2.7%	Formula =	relationship y a result = 10.7%	= mx + b.	0.69 icted return fo	ок r X.	Cancel
38 39 40 41 42 43 44	r(X) = r(rf r(Y) = r(rf	(1) + b(1) + b	r(Market) - 1 + r(Market) - 1	r(fr)) 2.7%	Formula =	relationship y a result = 10.7%	= mx + b.	0.69 icted return fo	ок r X.	Cancel
38 39 40 41 42 43 44 45	r(X) = r(rf r(Y) = r(rf	(2) + b(1) 8.0% (2) + b(1) 8.0%	r(Market) - 1 + r(Market) - 1 +	r(fr)) 2.7%	Formula = =	10.7%	= mx + b.	0.69 icted return fo icted return fo	ок r X. r Y.	Cancel
38 39 40 41 42 43 44 45 46	r(X) = r(rf r(Y) = r(rf	(2) + b(1) = -2 (2) + b(1) = -2 (3) + b(1) = -2 (4) + b(1) = -2 (5) + b(1) = -2 (5) + b(1) = -2 (6) + b(1) = -2 (7)	r(Market) - 1 + r(Market) - 1 +	r(fr)) 2.7%	Formula = =	10.7%	= mx + b.	0.69 icted return fo icted return fo	ок r X. r Y.	Cancel
38 39 40 41 42 43 44 45 46 47	r(X) = r(rf r(Y) = r(rf New Beta Y:	(2) + b(1) = 0 (1) + $b(1) = 0$ (2) + $b(1) = 0$ (3) + $b(1) = 0$ (4) + $b(1) = 0$ (5) + $b(1) = 0$ (5) + $b(1) = 0$ (6) + $b(1) = 0$ (7) +	r(Market) - 1 + r(Market) - 1 + 0.19	r(fr)) 2.7%	Formula = =	14.6%	= mx + b.	0.69 icted return fo icted return fo	ОК r X. r Y.	Cancel
38 39 40 41 42 43 44 45 46 47 48	r(X) = r(rf r(Y) = r(rf New Beta Y:	(2) + b(1) (3) + b(1)	r(Market) - 1 + r(Market) - 1 + 0.19	r(fr)) 2.7%	Formula = =	10.7%	= mx + b.	0.69 icted return fo icted return fo	ок r X. r Y.	Cancel
38 39 40 41 42 43 44 45 46 47 48 49	r(X) = r(rf r(Y) = r(rf New Beta Y: New r(y):	b) + b(1) + b(r(Market) - 1 + r(Market) - 1 + 0.19 8.8%	r(fr)) 2.7%	Formula	10.7%	= mx + b.	0.69 icted return fo icted return fo	ок r X. г Y.	Cancel







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