	В		С	D		Ε		F		G
2	EGR 120									
3	Introduction to Engineering									
4	File: Tables1.xls									
5										
6	Example 1: Tables	<u>s o</u>	f Calc	ulations	usi	ng Micros	50	ft Ex	cel	
7										
8	Problem: Shown below is a	ma	terial list	for building	a sm	all building. G	ive	en the ite	ems,	unit cost,
9	quantity, and tax rate, compl	lete	the rest o	f the table (c	olum	nns E, F, and G	) in	cluding	grai	nd
10	totals at the bottom. Use an	<u>abs</u>	olute add	<b>dress</b> when r	eferr	ring to the tax r	ate	so that	the t	ax rate
11	could be modified if necessa	ry.								
12										
13						Tax rate:	\$	0.045		
14										
15	Item	U	nit Cost	Quantity	Tot	al (before tax)		Tax	To	tal (after tax)
16	2x4x8 lumber	\$	2.65	64	\$	169.60	\$	7.63	\$	177.23
17	2x6x8 lumber	\$	4.36	6	\$	26.16	\$	1.18	\$	27.34
18	2x8x8 lumber	\$	5.89	8	\$	47.12	\$	2.12	\$	49.24
19	2x8x16 lumber	\$	10.21	26	\$	265.46	\$	11.95	\$	277.41
20	1/2" CDX plywood	\$	9.75	28	\$	273.00	\$	12.29	\$	285.29
21	8x8x16 blocks	\$	1.75	120	\$	210.00	\$	9.45	\$	219.45
22	30x48 window	\$	85.00	2	\$	170.00	\$	7.65	\$	177.65
23	felt roofing paper (roll)	\$	7.50	2	\$	15.00	\$	0.68	\$	15.68
24	asphalt shingles (bundle)	\$	6.95	14	\$	97.30	\$	4.38	\$	101.68
25	16d nails (pound)	\$	1.29	25	\$	32.25	\$	1.45	\$	33.70
26	8d nails (pound)	\$	1.29	25	\$	32.25	\$	1.45	\$	33.70
27	1.5" roofing nails (pound)	\$	1.19	20	\$	23.80	\$	1.07	\$	24.87
28	36x80 exterior door	\$	139.00	1	\$	139.00	\$	6.26	\$	145.26
29	8' garage door w/hardware	\$	199.00	1	\$	199.00	\$	8.96	\$	207.96
30	-			Totals:	\$	1,699.94	\$	76.50	\$	1,776.44
31										
32	Formulas:									
33	Contents of cell E16:	=C	16*D16							
34	Contents of cell F16:	=E	16*F\$13	(Note: an at	osolu	i <mark>te address</mark> wa	s us	sed for t	he ta	ax rate in F13)

35 Contents of cell G16: =SUM(E16:F16)

36

37 The sum in E30 was found by highlighting the block E16 through E30 (with E30 being blank) and

38 clicking the AutoSum ( $\Sigma$ ) button on the toolbar.