Name:		Date:	
Discussion Section:	Row:	Seat:	

## PRINCIPLES OF FINANCIAL AND MANAGERIAL ACCOUNTING II Spring 2002 Chapter 23 – Break-Even

"As a student of ORU, I hereby pledge my full and hearty support to the Honor Code. I agree not only to be honest myself but to report all cases of dishonesty that are observed by me."

1-3 Ace Company operated at full capacity during the year ended June 30. The income statement showed present sales of \$170,000, variable costs of 60% of sales, and fixed costs and expenses of \$60,000. Determine the break-even point (in total dollars). For full credit, show and label your work in good form.

S	=	FC	+	VC
S	=	\$60,000	+	.60S
.40S	=	\$60,000		
S	=	\$150,000		

4-6 Jack Company operated at full capacity during the year ended July 31. The income statement showed present sales of \$500,000, variable costs of 20% of sales, and fixed costs and expenses of \$150,000. Determine the margin of safetv (in dollars). For full credit, show and label your work in good form.

Must find BE first:

S	=	FC	+	VC
S	=	\$150,000	+	.20S
.80S	=	\$150,000		
S	=	<u>\$187,500</u>		

Then answer the question:			
Actual Sales	\$500,000		
Less: S @ BE	187,500		
MS in dollars	\$312,500		
(Note: lots of people determined			
MS as 62.5% but that was not the			
question.)			

7-9 King Corporation operated at full capacity during the year ended April 30. The income statement showed present sales of 5,000 units at *\$25* each, variable costs per unit of \$15, and fixed costs and expenses of \$30,000. Determine the break-even point in units. For full credit, show and label your work in good form.

Best formula:

S	=	FC	1	UCM
S	=	\$30,000	1	(\$25 - \$15)
S	=	\$30,000	1	\$10 <b>(</b>
S	=	3,000 units		

10. Queen Company operated at full capacity during the year ended May 31. The income statement showed present sales of \$500,000, variable costs of 60% of sales, and fixed costs and expenses of \$100,000. Determine the contribution margin ratio.

1 - 60% = 40%

(Perhaps the easiest question we have asked this semester! A lot of pencil lead was wasted on this solution!!)