Exercise 6-9 (20 minutes)

1. The overall contribution margin ratio can be computed as follows:

Overall CM ratio = $\frac{\text{Total contribution margin}}{\text{Total sales}}$

$$=\frac{\$30,000}{\$100,000}=30\%$$

2. The overall break-even point in sales dollars can be computed as follows:

Overall break-even = $\frac{\text{Total fixed expenses}}{\text{Overall CM ratio}}$ = $\frac{\$24,000}{30\%}$ = \$80,000

3. To construct the required income statement, we must first determine the relative sales mix for the two products:

Original dollar sales Percent of total Sales at break-even	<i>Claimjumper</i> \$30,000 30% \$24,000	<i>Makeover</i> \$70,000 70% \$56,000	<i>Total</i> \$100,000 100% \$80,000
Sales Variable expenses* Contribution margin Fixed expenses Net operating income	<i>Claimjumper</i> \$24,000 <u>16,000</u> <u>\$ 8,000</u>	<i>Makeover</i> \$56,000 <u>40,000</u> <u>\$16,000</u>	<i>Total</i> \$80,000 <u>56,000</u> 24,000 <u>24,000</u> <u>\$</u> 0

*Claimjumper variable expenses: (\$24,000/\$30,000) × \$20,000 = \$16,000 Makeover variable expenses: (\$56,000/\$70,000) × \$50,000 = \$40,000

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