In-class Exercise: CVP analysis

Question 1:

Veren Inc. produces and sells two products. During the most recent month, Product F73A's sales were \$27,000 and its variable expenses were \$9,450. Product L75P's sales were \$14,000 and its variable expenses were \$5,310. The company's fixed expenses were \$21,060.

Requirement:

- (a) Determine the overall break-even point for the company in total sales dollars by assuming that the sales mix remains unchanged.
- (b) If the sales mix shifts toward Product F73A, what will happen to the break-even point for the overall company's total sales (i.e., increase, decrease or no change)?

Your answer:

break-even =
$$\frac{FC}{CM \text{ ratio}} = \frac{21060}{0.64} = 32906$$

Question 2:

Sebree Corporation has provided the following contribution format income statement:

Sales (7,000 units)	\$ 280,000
Variable expenses	 168,000
Contribution margin	112,000
Fixed expenses	 105,600
Net operating income	\$ 6,400

Student Name:	Chengyang Zhou	Date:	9/2/2024
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Requirement:

What is the estimated percent increase in net operating income as the result of a 5% increase in sales?

Your answer:

DOL = 112000 / 6400 = 17.5 17.5 * 5% = 87.5%