

# QUESTION

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1. The following information relates to the operations of a company for the year ended 31 December 2020:  
Sales revenue: 1,000,000  
Cost of sales: 600,000  
Selling expenses: 100,000  
Administrative expenses: 150,000  
Depreciation: 50,000  
Interest on bank borrowings: 20,000  
Dividend received from subsidiary: 10,000  
Profit on disposal of plant: 15,000  
The company has no other income or expenses.  
Calculate the company's contribution margin ratio for the year ended 31 December 2020.
2. The following information relates to the operations of a company for the year ended 31 December 2020:  
Sales revenue: 1,000,000  
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Administrative expenses: 150,000  
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The company has no other income or expenses.  
Calculate the company's contribution margin ratio for the year ended 31 December 2020.
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The company has no other income or expenses.  
Calculate the company's contribution margin ratio for the year ended 31 December 2020.
4. The following information relates to the operations of a company for the year ended 31 December 2020:  
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Administrative expenses: 150,000  
Depreciation: 50,000  
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Interest on bank borrowings: 20,000  
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Profit on disposal of plant: 15,000  
The company has no other income or expenses.  
Calculate the company's contribution margin ratio for the year ended 31 December 2020.

## ANSWER

1. The contribution margin ratio is calculated as follows:  
Contribution margin ratio = (Sales revenue - Cost of sales) / Sales revenue  
= (1,000,000 - 600,000) / 1,000,000  
= 40%

**NAME:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**TOPIC:** \_\_\_\_\_

**QUESTION:** \_\_\_\_\_

**ANSWER:** \_\_\_\_\_

**EXPLANATION:** \_\_\_\_\_

\_\_\_\_\_

**REMARKS:** \_\_\_\_\_

## Answer:

Step 1: Identify the variables and the relationship between them.

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2. Identify the variables and the relationship between them.

3. Identify the variables and the relationship between them.

4. Identify the variables

## PROBLEMA 1. (10 puntos)

Se considera el sistema de ecuaciones lineales:

$$\begin{cases} x + y + z = 1 \\ 2x + 3y + 4z = 2 \\ 3x + 4y + 5z = 3 \end{cases}$$

Resolva el sistema para  $x, y, z$ .

Responda en el espacio de trabajo adjunto.

Resolva el sistema de ecuaciones lineales para  $x, y, z$ .

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