

# Formulae

You will not be given these formulae in the exam, so you need to learn them!

## LEARN IT!

### Total costs

Total costs (TC) = Total fixed costs (TFC) + Total variable costs (TVC)

### Variable costs

Variable costs = Cost of one unit × Quantity produced

### Revenue

Revenue = Price × Quantity

### Break-even

Break-even point in units =  $\frac{\text{Fixed costs}}{(\text{Sales price} - \text{Variable cost})}$

Break-even point in costs / Revenue = Break-even point in units × Sales price

### Margin of safety

Margin of safety = Actual or budgeted sales – Break-even sales

### Interest (on loans)

Interest (on loans) in % =  $\frac{\text{Total repayment} - \text{Borrowed amount}}{\text{Borrowed amount}} \times 100$

### Net cash flow

Net cash flow = Cash inflows (receipts) – Cash outflows in a given period (payments)

### Opening and closing balances

Opening balance = Closing balance of the previous period

Closing balance = Opening balance + Net cash flow

### Profit

Profit / loss = Total revenue – Total costs

### Gross profit

Gross profit = Sales revenue – Cost of sales

### Gross profit margin

Gross profit margin (%) =  $\frac{\text{Gross profit}}{\text{Sales revenue}} \times 100$

### Net profit

Net profit = Gross profit – Other operating expenses and interest

### Net profit margin

Net profit margin (%) =  $\frac{\text{Net profit}}{\text{Sales revenue}} \times 100$

### Average rate of return

Average rate of return (%) =  $\frac{\text{Average annual profit (Total profit / No. of years)}}{\text{Cost of investment}} \times 100$

### Percentage growth

Percentage growth =  $\frac{\text{Increase in size}}{\text{Original size}} \times 100$