

# OCR ALevel Business: Finance & Accounting 1



## Knowledge Organiser: Finance and Accounting

## Financial objectives

- · Return on capital employed (ROCE) targets
- · Shareholders' returns
- · Cost minimisation
- · Cash flow targets

#### Reasons for setting financial objectives

- · Act as a focus for decision making and effort
- Provide a yardstick against which success or failure can be measured.
- Improves coordinatio
- . Imperson efficiency
- Allows shareholders to assess whether the business is going assessed a worthshife investment
- Enables outside organisations (suppliers and outtomers), to confire the financial viability of a business

### Internal influences on FO

- · Corporate objectives
- · Nature of the product that is sold
- · Objectives of the senior managers
- Finance
- · Human resources
- · Operational factors
- · Resources available

## External influences on FO

- PESTLE analysis
- · Actions of other businesses
- · Market factors
- Suppliers

#### Cost Centres & Profit Centres

Cost centre - An identifiable part of an organisation where costs can be calculated

Profit centre - An identifiable part of an organisation where costs and revenue can be calculated

- · You need to be able to allocate all costs to a certain area
- . If you can calculate revenues as well as costs can calculate profit (Total revenues-total costs)
- These are often used with budgets to assist with financial planning and control

#### Uses of Cost and Profit centres

- · They allow the business to compare performance between departments / across products / brands etc
- This allows the business to make decisions about underperforming areas
- If a profit centre is identified as doing well businesses may want to focus on the reasons behind this
- They allow a more focused study of a firms finances
- Benchmarking can take place
- Responsibility for a profit / cost centre will motivate the individual responsible
- By placing responsibility with the person involved in the activity the finances may be run more efficiently than would be the case if a more remote, senior manager controlled it.

#### ACCOUNTING CONCEPTS

#### Going Concen

Accountants a sume, unless there is evidence to the contrary, that a company is not going broke. This has important implications for the valuation of a section disbilities

#### Consist

Transactions and valuation methods are treated the same way from year to year, or period to period. Users of accounts can, therefore, make more meaningful comparisons of financial performance from year to year. Where accounting policies a nechanged, companies are nequined to disclose this fact and explain the impact of any

#### Prude nce

Profit sure not recognised until a sale has been completed. In addition, a cautious view is taken for future problems and costs of the business (the are "provided for" in the account of as soon as their is a reasonable chance that such costs will be incurred in the future.

#### Matchine (or "Accounts"

Income should be properly "matched" with the expenses of a given accounting period

#### Danil or H

With this convention, accounts recognise transactions (and any profits arising from them) at the point of sale or transfer of legal ownership - rather than just when cash actually changes hands.

#### Materia II

Where decisions are required about the appropriate reason's particular accounting judgement, the "materiality" convention suggests that this should only be an issue if the suderment is "significant" or "material" to a use not the accounts.

#### Objectivity

Target Level of Profit=

Fixed Costs+Target Level of Profit

Selling Price-Variable Costs

This im piles that accounting information is prepared and reported in a "neutral" way. In other words, it is not biased towards a particular user group or vested interest

Absorption Costing: All overheads are allocated to different products or areas based on revenue or direct costs

Marginal Costing: The cost of producing one more (variable costs)

Contribution: The amount from each sale being put towards fixed costs Profit = Total Contribution-Fixed Costs

Contribution per Unit (CPU) = Selling Price - Variable Costs Total Contribution = CPU X Output

Special Order: A special order is an extra order or an order for an item specially requested by a customer, normally at a cheaper price. The business has to decide whether to accept this order or not. Benefits are some contribution, develop relationships and future orders but downsides might be to miss other orders, impact on current customer relationships and potentially extra cost created.

## Main Sources of Business Finance

LONG-TERM	MEDIUM-TERM	SHORT-TERM
Finances the whole business over many years	Finances major projects or assets with a long-life	Finances day-to-day trading of the business
	Examples:	Examples:
Share capital Retained profits Venture capital Mortgages Long-term bank loans	Bank loans Leasing Hire purchase Government grants	Bank overdraft  Trade creditors  Factoring

	Calculation
Revenue	Quantity sold x selling price
Variable costs	Quantity sold x variable cost per unit
Total costs	Fixed costs + variable costs
Profit	Revenue - costs
Average Costs/Unit Costs	Total Costs ÷ Number of Units

- ►FIXED COSTS Costs don't change over a period of time and don't vary with output
- VARIABLE COSTS Costs that vary change over a period of time and also vary with output
- ▶ SEMI VARIABLE COSTS These costs have fixed and variable elements of production



### Direct and Indirect cost

Direct cost is a cost

Direct Cost: Direct costs are those cost that have directly accountable to specific cost object such as a process or product

Ex:wages paid ,salary paid labor, material...etc

### Indirect cost:

Indirect cost are those costs which are not directly accountable to specific cost object or not directly related to production

Ex: insurance, mentainence ,telecom, ...etc

## Calculating break even

Total fixed costs (Selling price - variable costs per unit)



# Break-even forecast A prediction about Businesses use information about revenues and costs to calculate the break-even level of output- more useful to new businesses

the break-even quantity based on estimates of future sales revenues and costs

## Break-even quantity

The amount a business must sell to earn enough revenue to cover its costs

#### Margin of safety

The amount by which a business' actual output is greater than its break-even output



See how much you need to sell

Usefulness of break-even analysis

Shows the margin of safety



# OCR ALevel Business: Finance & Accounting 2

Sales

Causes of

Cash Flow

Problems

Too short

creditor days

Seasonal

Demand



# Knowledge Organiser: Finance and Accounting

Favourable variances mean

to increase profit Adverse variances mean that

that the actual performance

of the organisation has been

better than expected - likely

the actual performance has

been worse than expected

-likely to reduce profit

Budgets are an estimate of income and expenditure for a set period of time. Budgets are used to:

Control income and expenditure (the traditional use)

Establish priorities and set targets in numerical terms

Provide direction and co-ordination, so that business objectives can be turned into practical reality

Assign responsibilities to budget holders (managers) and allocate resources

Communicate targets from man agement to employees

Motivate staff

Improve efficiency

Monitor performance

Variance analysis is used to calculate the difference between any actual and budgeted figures.

After calculation the variance should be interpreted as follows: Cash Flow

Opening Balance= Last month's closing balance

Net Cash Flow+= Inflows-Outflows

Closing Balance= Opening Balance + Net Cash Flow

Cash flow is the difference between the amount of cash a company receives and pays, whereas profitability is the difference between revenues and expenses



Investment Annraisals	The process of	analysing whather an	investment is worthwhile	

mestine	merappronsum me proces	s or analysing whether an inves	ement is morenamic
Payback	The payback period is the time it takes for a project to repay its initial investment	Advantages: Shows level of risk, Easy to calculate and interpret, Good for use in changing markets	Drawbacks: Cash flows are estimates,  Does not consider value of money over time, Only considers time to pay back not profitability
Average Rate of Re- turn (ARR)	Average Rate of Return: this measures the average annual profit as a percent- age of the initial investment  Average Annual Profit X100 Initial Cost	Advantages: Considers profits linked to an investment, Considers life of the project	Drawbacks: Cash flows are estimates,  Does not consider value of money over time, Only considers time to pay back not profitability, Years of life an estimate
Net Present Value (NPV)	The present value of the expected future cash flows minus the cost Total of (Current Value X	Advantages: Considers value of mon- ey over time, Considers all cash flow	Drawbacks: Discount factor and esti- mate by business, Cash inflows and estimate
A04 Qualitative Fac- tors impacting invest-	Demand, Market Situation, Ec	onomy, Labour Considerations, Finance Av Choice, Political Factors, Social Fact	

DEPRECIATION -a reduction in the value of an asset over time,

due in particular to wear and tear or new technology

Increased

Outflows

Overstocking

## Straight Line Depreciation = Initial Cost- Residual Value

#### Useful Life in Years

(inflows)

Cash flow

Reduce

Outflows

Stock

Use a source of finance-

overdraft/loan

/factoring

Change

trade

credit

days

### Reducing (Declining) Balance

This correlates to the percentage the asset will depreciate by each year

	Advantages	Disadvantages
•	More reflective of assets value over time No need for residual value or	Accounts and value of business can look worse as assets worth less— hard to get finance Less accurate as assets
	useful life of an asset	lose more value in first few years

et Blook Value - In Ha I Cost - Accumulate d Depreciation of this I Value - De-male order of a met after useful life



# OCR ALevel Business: Finance & Accounting 3



# Knowledge Organiser: Finance and Accounting

Ratio	Formula	Data	Outcome	Interpretation
Liquidity ratios	roman	USIZ	Cattorine	and production and a second and
Current ratio	Current assets Current liabilities	300	4.00	This is a broad test of liquidity. Any value above 1 indicates that the firm can pay its short term obligations from its outent assets.
Acid test	Current assets – inventories (stock) Current liabilities	300 -100 75	2.67	This is a more stringent test of liquidity in that it recognises that inventory may not be immediately convertible to cash at full book value.
Profitability ratios				
Gross profit margin	Gross profit x 100 Revenue	260 x 100 750	34.67%	Measures how much of each £1 of sales becomes gross profit. The larger the percentage the better and may indicate both the amount of value the business is able to add and the nature of competition in its market.
Net profit margin	Profit before interest and tax x 100 Revenue	90 x 100 750	12.00%	Measures how much of each £1 of sales becomes net profit. It is acceptable to use operating profit restead of PBTI in the calculation. The larger the precruitage the better by taking peofit before interest and tax it is possible to measure the aspects over which the business has control. If profit was after interest and tax, then a rise in interest and tax rates would depress right and so make the business look less positiable, whereos managers are not able to control these factors. If the detail in the income statement does not include PBIT, then it is a corporable to use profit for the year, with a note to explain that this is an approximation.
Return on capital employed (ROCE)	Operating profit x 100 Capital employed (Total equity + non-current liabilities)	110 x 100 330 + 495	13.33%	The most fundamental measure of business financial performance and efficiency, in that it measures what comes out, profit, to what goes in, capital employed. The higher the percentage the better and the more efficient the business is in turning capital into profit.
Return on equity	Profit for the year x 100 Total equity	52×100 495	10.51%	Measures the amount the shareholders are getting back for every £1 of equity investment. Given that shareholders are likely to have a financial objective, the higher the percentage the better.
The following ratios are ON	LY examined at A Level			
Solvency ratios				
Gearing	Non-current liabilities × 100 Capital employed (Total shareholders' equity + non-current liabilities)	330 x 100 495 + 330	40.0%	This shows the extent to which the business relies on debt (external) funding in its long term capital structure. High gearing has the effect of magnifying the EPS and PVE ratios.
Interest cover	Profit before interest and tax (PBIT) Finance costs (Interest payable)	90 20	45 times	This shows how many times the business is able to pay its interest commitment from the year's profits. The larger the value the less the risk. A value less than 1.0 means that the business is unable to pay its interest and this may lead to loan foreclosure.

Efficiency ratios				
Creditor turnover (Creditor/ trade payables payment period)	Cost of sales* Trade payables (creditors)  Trade payables (creditors) x 365 Cost of sales*	490 60 60 x 365 490	82 times 44.7 days	creditors 8.2 times per year i.e. it takes 44.7 days to settle its invoices. A business woul want a long creditor payment period. Technically, the creditor turnover/collection period should be based on just credit purchases and not on all purchases.
	*where purchases on credit are known they should be used instead of cost of sales.			
Debtors/receivables numover Debtor collection period)	Revenue* Trade receivables (debton) Trade receivables (debton) x 365 Revenue* *where credit sales are known they should be used instead of revenue.	750 150 150 x 365 750	5.0 times 73.0 days	On average the company collects payment from its customers 5 times per year, i.e. debtors have an average collection period of 73 days. A business would want a short debtor collection period. Technically the debtor turnover/collection period should be based on just credit sales and not revenue.
Non-current assets turnover	Revenue Non-current assets	750 600	1.25	This measures the relationship between non-current assets and revenue. For every £ invested in non-current assets this business generates £1.25 of sales. The higher the value the more productive are the assets.
Stock (inventory) turnover	Cost of sales Inventories (stock) Inventories (stock) x 365 Cost of sales	490 100 100 x 365 490	49 times 745 days	On average the company turns stock into sales 4.9 times per year. The larger the number the more active is the business. On average, the entire stock turns over every 75 days.
Shareholder ratios			•	
Dividend per share (DPS)	Dividend Number of shares in issue	40 200	£0.20	Unless dividends exceed profit for the year i.e. dividends are paid out of previous year earnings, DPS must be less than EPS. It shows the actual cash reward to each share.
Dividend yield	DPS x 100 Share price	0.20 x 100 (5.00	4.0%	Compares the reward from dividends to the opportunity cost of having the share. The larger the percentage the better for shareholders.
Earnings per share (EPS)	Profit for the year Number of ordinary shares in issue	52 200	£0.26	This shows the extent to which the business relies on debt (external) funding in its long term capital structure. High gearing has the effect of magnifying the EPS and P/E ratios
Price/earnings ratio	Share price EPS	5.00 0.26	19.2 times	A measure of market confidence in that the market values the business at a 192 tim multiple, hence the larger the value the more confident the market is that the busine will continue to generate reward for its shareholders.

Statement of financial position as at 31 January 2016

Non-current assets Intangible assets

Investments

Current assets

Current liabilities

Net current assets

Non-current liabilities

Inventories Trade and other receivables

Overdraft

Net assets

equity holders Share capital

Retained earnings TOTAL EQUITY

Property, plant & equipment

Cash and cash equivalents

Trade and other payables

£000s

50 540

10

100

150

50

60

15

200 295 £000s

75

330

495

## Income statement for the year ended 31 January 2016

-	-
	£000s
Revenue	750
Cost of sales	490
Gross profit	260
Expenses	150
Operating profit	110
Depreciation	20
Profit before interest and tax (PBIT)	90
Finance costs	20
Profit before tax	70
Tax	18
Profit for the year	52
Dividends	40
Retained profit	12

I	£000s	£000s	£000s
Non-current assets			
Intangible assets	50		
Property, plant & equipment	540		
Investments	10		
		600	
Current assets			
Inventories	100		
Trade and other receivables	150		
Cash and cash equivalents	50	300	
TOTAL ASSETS			900
Current liabilities			
Trade and other payables	60		
Overdraft	15	75	
Non-current liabilities			
Loan		330	
Capital & Reserves attributable to equity holders			
Share capital	200		
Retained earnings	295	495	
TOTAL EQUITY & LIABILITIES			900

Note: both of the above formats are acceptable and the number of columns used in each statement can vary.

Additional information: 200 000 £1 ordinary shares

Current share price = £5.00

### Use of Financial Ratios

- Financial ratios may be used by managers within a firm, by current and potential shareholders (owners) of a firm, and by a firm's creditors. .
- Financial analysts use financial ratios to compare the strengths and weaknesses in various companies.
- If shares in a company are traded in a financial market, the market price of the shares is used in certain financial ratios.
  - Limitations of Ratios

Difficult to identify industry categories or comparable peers.

Published peer group or industry averages are only approximations.

Industry averages may not provide a desirable target ratio or norm.

Accounting practices differ widely among firms

A high or low ratio does not automatically lead to a specific favorable or unfavorable conclusion.

or uniavorable conclusion.

Seasons may bias the numbers in the financial statements.