

Ch 7 - Cost-Volume-Profit Analysis

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Cost-Volume-Profit Analysis{CVP}

- a study of the effects of change of costs and volume on **income/Profit**
- considers the interrelationships among the five components:
 1. level of activity (sales volume)
 2. unit selling price
 3. variable cost per unit
 4. fixed costs
 5. sales mix

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Break-even Analysis !

Breakeven point: the level of activity at which total revenues = total costs

desired **unit** sales = \$fixed costs / \$CM *per unit*

Where CM =Contribution Margin

What about break-even sales dollars

1. \$ fixed costs / CM ratio = B/E sales \$ Where CM ratio is CM/Total Revenue
2. Based on the equation:
Revenues - Variable Costs - Fixed Costs = Operating Income
Set operating income to zero and solve for unknown(s).

desired NIBT = desired Net Income / (1 - t)

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Break-even Analysis - cont'd

- **Margin of safety:** the difference between actual sales and the break-even sales
 - expressed in dollars or as a %
- **Operating Leverage factor** - a measure of the volatility of earnings and degree to which a firm uses fixed costs.
 - = contribution Margin/ operating Income
 - An operating Leverage of 2 implies that a 1% increase in sales will result in a 2% increase in operating income

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Multi-Product Environment

- Multiproduct environment: The ratio or percentage of each product that is sold is always specified in question.
- Simulate the single-product environment by:
 1. Bundling the products by their ratio and determine the **'bundle' CM**
 2. Find the Break-even units for the bundle
 3. Unbundle into individual products

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Major Underlying Assumptions

- Revenue per unit, variable costs per unit, and fixed costs are constant within the RELEVANT RANGE
- mixed costs can be accurately separated into their fixed and variable components
- sales = production
 - necessary because of the allocation of fixed costs to inventory at potentially different rates each year
- **sales mix remains constant**
- labour, production productivity does not change

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Ch 8 - Alternative Inventory Costing Methods

Absorption Costing vs. Variable Costing

	Absorption Costing	Variable Costing
Direct Materials	√	√
Direct Labour	√	√
Variable manufacturing overhead	√	√
Fixed manufacturing overhead	√	Period Cost

Absorption Costing

➤ Absorption [aka Full Costing]: Allocate both Fixed and Variable Manufacturing Overhead to F/G inventory. THIS IS WHAT WE HAVE BEEN DOING SO FAR. All product costs eventually go to COGS.

CRITICISMS OF ABSORPTION COSTING

- Incentive to overproduce: Managers can reduce the average cost per unit by increasing production and thereby shift more fixed costs to inventory - can be overcome by:
 - charge managers for holding inventory
 - policy against holding excess inventories
 - change focus of performance measures from short-term to long-term
 - adopt a Just-in-Time Inventory system (low inventories)
- use variable costing

Variable Costing

- all fixed costs are written off against income in they year they are incurred - they are treated as period costs

- Advantages:
 - eliminates distortions to income and product costs when volume changes
 - reduces the dysfunctional incentives to overproduce
- Disadvantages:
 - it is not acceptable for external financial reporting purposes
 - managers need to consider fixed costs when making long-term pricing decisions

Absortion VS. Variable Costing

- We will be doing notes in class and concentrate on understanding the exercises/problems. Not much in terms of power point slides.

Chapter 9

~~Profit Planning and Activity-Based Budgeting~~

Learning Objectives

1. **List and explain** five purposes of budgeting systems.
2. **Prepare** each of the budget schedules that make up the master budget.
3. Describe a typical organization's process of budget administration.
4. Discuss the behavioural implications of budgetary slack and participative budgeting.
5. **Of course, be able to do all the ICs, and as much of the hwk as you can.**

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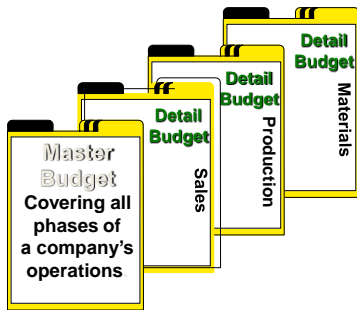
Learning Objective 1 Purposes of Budgeting Systems

Budget
a detailed plan, expressed in quantitative terms, that specifies how **resources will be acquired and used** during a specified period of time.

1. **Planning**
2. **Facilitating Communication and Coordination**
3. **Allocating Resources**
4. **Controlling Profit and Operations** during period
5. **Evaluating Performance and Providing Incentives**

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Types of Budgets- the order is **not correct** below



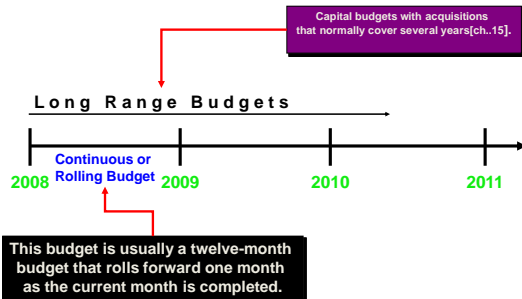
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Types of Budgets

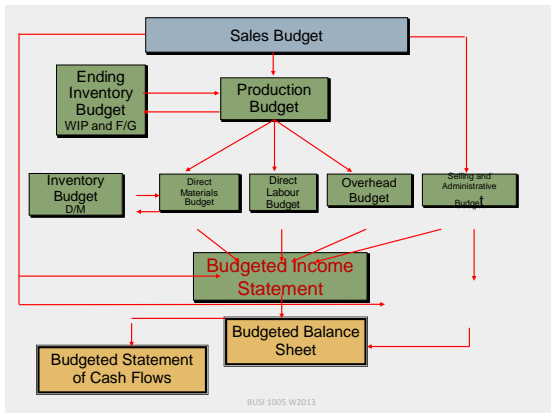


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Types of Budgets Cont'd



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Sales Budget

- ① Breakers, Inc. is preparing budgets for the quarter ending June 30.
- ② Budgeted sales for the next five months are:
 - April 20,000 units
 - May 50,000 units
 - June 30,000 units
 - July 25,000 units
 - August 15,000 units.
- ③ The selling price is \$10 per unit.

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Sales Budget

	April	May	June	Quarter
Budgeted sales (units)	20,000	50,000	30,000	100,000
Selling price per unit	\$ 10	\$ 10	\$ 10	\$ 10
Total Revenue	<u>\$200,000</u>	<u>\$500,000</u>	<u>\$300,000</u>	<u>\$1,000,000</u>

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Production Budget

The management of Breakers, Inc. wants ending inventory to be equal to 20% of the following month's budgeted sales in units.

On March 31, 4,000 units were on hand.

Let's prepare the production budget.

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Production Budget-units

From sales budget

Desired inventory 10,000 units

	April	May	June	Quarter
Sales in units	20,000	50,000	30,000	100,000
Add: desired end. inventory	10,000	6,000	5,000	5,000
Total needed	30,000	56,000	35,000	105,000
Less: beg. inventory	4,000	10,000	5,000	4,000
Units to be produced	26,000	46,000	29,000	101,000

March 31 ending inventory

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Direct-Material Budget

- At Breakers, five kilograms of material are required per unit of product.
 - Management wants materials on hand at the end of each month equal to 10% of the following month's production.
 - On March 31, 13,000 kilograms of material are on hand. Material cost \$.40 per kilogram.
- Let's prepare the direct materials budget.

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Direct-Material Budget

From our production budget

	April	May	June	Quarter
Production in units	26,000	46,000	29,000	101,000
Materials per unit	5	5	5	5
Production needs	130,000	230,000	145,000	505,000
Add: desired ending inventory	23,000	14,500	11,500	11,500
Total needed	153,000	244,500	156,500	516,500
Less: beginning inventory	13,000	23,000	14,500	13,000
Materials to be purchased	140,000	221,500	142,000	503,500

10% of the following month's production

March 31 inventory

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Cash Receipts Budget

- At Breakers, all sales are on account.
- The company's collection pattern is:
 70% collected in the month of sale,
 25% collected in the month following sale,
 5% is uncollected.
- The March 31 accounts receivable balance of \$30,000 will be collected in full.

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Cash Disbursements Budget

- Breakers pays \$0.40 per kilogram for its materials.
- One-half of a month's purchases are paid for in the month of purchase; the other half is paid in the following month.
- No discounts are available.
- The March 31 accounts payable balance is \$12,000.

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Cash Receipts Budget

	April	May	June	Quarter
Accounts rec. - 3/31	\$ 30,000			\$ 30,000
April sales				
70% x \$200,000	140,000			140,000
25% x \$200,000		\$ 50,000		50,000
May sales				
70% x \$500,000		350,000		350,000
25% x \$500,000			\$ 125,000	125,000
June sales				
70% x \$300,000			210,000	210,000
Total cash collections	\$ 170,000	\$ 400,000	\$ 335,000	\$ 905,000

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Materials Cash Disbursements Budget

	April	May	June	Quarter
Accounts pay. 3/31	\$ 12,000			\$ 12,000
April purchases				
50% x \$56,000	28,000			28,000
50% x \$56,000		\$ 28,000		28,000
May purchases				
50% x \$88,600		44,300		44,300
50% x \$88,600			\$ 44,300	44,300
June purchases				
50% x \$56,800			28,400	28,400
Total cash payments for materials	\$ 40,000	\$ 72,300	\$ 72,700	\$ 185,000

140,000 kgs. x \$.40/kg. = \$56,000

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Cash Disbursements Budget (cont'd)

Breakers:

- Maintains a 12% open line of credit for \$75,000.
- Maintains a minimum cash balance of \$30,000.
- Borrows and repays loans on the last day of the month.
- Pays a cash dividend of \$25,000 in April.
- Purchases \$143,700 of equipment in May and \$48,300 in June paid in cash.
- Has an April 1 cash balance of \$40,000.

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From our Cash Receipts Budget

Cash Budget

(Collections and Disbursements) Try to do other columns before going to next slide

	April	May	June	Quarter
Beginning cash balance	\$ 40,000			
Add: cash collections	170,000			
Total cash available	210,000			
Less: disbursements				
Materials	40,000			
Direct labour	24,000			
Mfg. overhead	56,000			
Selling and admin.	70,000			
Equipment purchase	-			
Dividends	25,000			
Total disbursements	215,000			
Excess (deficiency) of Cash available over disbursements	\$ (5,000)			

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Ending cash balance for April is the beginning May balance.

Cash Budget (Financing and Repayment)

	April	May	June	Quarter
Excess (deficiency) of Cash available over disbursements	\$ (5,000)	\$ 16,200	\$ 86,000	\$ 37,200
Financing:				
Borrowing	35,000	13,800		48,800
Repayments	-	-	(48,800)	(48,800)
Interest	-	-	(838)	(838)
Total financing	35,000	13,800	(49,638)	(838)
Ending cash balance	\$ 30,000	\$ 30,000	\$ 36,362	\$ 36,362

Borrowing	Rate	Interest	Outstanding	Expense
\$ 35,000	12%	\$ 4,200	2 mth.	\$ 700
13,800	12%	1,656	1 mth.	138
				\$ 838

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Cost of Goods Manufactured BUDGET

	April	May	June	Quarter
Direct material:				
Beg. material inventory	\$ 5,200	\$ 9,200	\$ 5,800	\$ 5,200
Add: Materials purchases	56,000	88,600	56,800	201,400
Material available for use	61,200	97,800	62,600	206,600
Deduct: End. material inventory	9,200	5,800	4,600	4,600
Direct material used	52,000	92,000	58,000	202,000
Direct labour	24,000	36,800	24,000	84,800
Manufacturing overhead	56,000	76,000	59,000	191,000
Total manufacturing costs	132,000	204,800	141,000	477,800
Add: Beg. Work-in-process inventory	3,800	16,200	9,400	3,800
Subtotal	135,800	221,000	150,400	481,600
Deduct: End. Work-in-process inventory	16,200	9,400	17,000	17,000
Cost of goods manufactured	\$ 119,600	\$ 211,600	\$ 133,400	\$ 464,600

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Cost of Goods Sold BUDGET

	April	May	June	Quarter
Cost of goods manufactured	\$ 119,600	\$ 211,600	\$ 133,400	\$ 464,600
Add: Beg. finished-goods inventory	18,400	46,000	27,600	18,400
Cost of goods available for sale	138,000	257,600	161,000	483,000
Deduct: End. finished-goods inventory	46,000	27,600	23,000	23,000
Cost of goods sold	\$ 92,000	\$ 230,000	\$ 138,000	\$ 460,000

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Budgeted Income Statement

Breakers, Inc. Budgeted Income Statement For the Three Months Ended June 30	
Revenue (100,000 x \$10)	\$ 1,000,000
Cost of goods sold	460,000
Gross margin	540,000
Operating expenses:	
Selling and admin. expenses	\$ 260,000
Interest expense	838
Total operating expenses	260,838
Net income	\$ 279,162

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Budgeted Statement of Cash Flows

	April	May	June	Quarter
Cash flows from operating activities:				
Cash receipts from customers	\$ 170,000	\$ 400,000	\$ 335,000	\$ 905,000
Cash payments:				
To suppliers of raw material	(40,000)	(72,300)	(72,700)	(185,000)
For direct labour	(24,000)	(36,800)	(24,000)	(84,800)
For manufacturing-overhead expenditures	(56,000)	(76,000)	(59,000)	(191,000)
For selling and administrative expenses	(70,000)	(85,000)	(75,000)	(230,000)
For interest	-	-	(838)	(838)
Total cash payments	(190,000)	(270,100)	(231,538)	(691,638)
Net cash flow from operating activities	\$ (20,000)	\$ 129,900	\$ 103,462	\$ 213,362
Cash flows from investing activities:				
Purchase of equipment	-	(143,700)	(48,300)	(192,000)
Net cash used by investing activities	\$ -	\$ (143,700)	\$ (48,300)	\$ (192,000)
Cash flows from financing activities:				
Payment of dividends	(25,000)	-	-	(25,000)
Principle of bank loan	35,000	13,800	-	48,800
Repayment of bank loan	-	-	(48,800)	(48,800)
Net cash provided by financing activities	\$ 10,000	\$ 13,800	\$ (48,800)	\$ -
Net increase in cash	\$ (10,000)	\$ -	\$ 6,362	\$ (3,638)
Balance in cash, beginning	40,000	30,000	30,000	40,000
Balance in cash, end of month	\$ 30,000	\$ 30,000	\$ 36,362	\$ 36,362

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Assumptions and Predictions

The budget/Plan has many assumptions and predictions build into it. Computerized models can be run many times to explore various what-if scenarios, for example, the impact on bottom-line profitability of changes in budget variables (e.g., interest rates, demand, inflation rates, and competitors' actions, prices, etc.).

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Budget Administration

The Budget Committee is a standing committee responsible for . . .

- overall policy matters relating to the budget.
- coordinating the preparation of the budget.



International Aspects of Budgeting

Firms with international operations face special problems when preparing a budget.

1. Fluctuations in foreign currency exchange rates.
2. High inflation rates in some foreign countries.
3. Differences in local economic conditions.



Behavioural Impact of Budgets

Budgetary Slack: Padding the Budget

People often perceive that their performance will look better in their superiors' eyes if they can "beat the budget."

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Direct materials variances

- direct materials *flexible* budget variance =
D/M flexible budget **less** DM actual costs incurred
- **Above variance breaks out into two variances:**
 1. DM price variance = Actual Quantity Purchased x
[Actual Price (AP) - Standard price (SP)]
 2. DM quantity variance = Standard price x (Actual
Quantity Used - **Standard Quantity Allowed**)

Direct labour variances

- direct labour *flexible* budget variance =
DL flexible budget **less** DL actual costs incurred
- **breaks out into two variances:**
 1. D/L price/rate variance = Actual Hours x (Actual
Rate - Standard Rate)
 2. D/L efficiency variance = Standard Rate x (Actual
Hours - **Standard Hours Allowed**)

Variable Overhead Variances

- Variable overhead *flexible* budget variance =
VOH flexible budget **less** VOH actual costs incurred
- **breaks out into two variances:**
 1. VOH Spending variance = Actual Hours x (Actual
Rate - Standard Rate)
 2. VOH efficiency variance = Standard Rate x
(Actual Hours - **Standard Hours Allowed**)

Fixed Overhead Variances

- FOH Spending/Budget Variance =
FOH Budget - FOH Actual
- FOH Volume Variance =
FOH Budget - *FOH Applied*
-if Underapplied then Unfavourable
-if overapplied then Favourable

Variance Formulas

The handout to be given in class is very important for test 2 and final exam. It is only one sheet but it is full.

We will go through it too. You will need to go over it many times. At least no debits and credits.

Under or Over-Applied Overhead

- the balance in the Manufacturing Overhead account = sum of :
 - VOH Spending Variance
 - VOH Efficiency Variance
 - FOH Budget Variance
 - FOH Volume Variance

Chapter 12

Responsibility Centres and Transfer Pricing

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Learning Objectives

1. **Explain** the role of responsibility accounting in fostering goal congruence.
2. **Define and give an example** of a cost centre, a revenue centre, a profit centre, and an investment centre. **Evaluation of each centre.**
3. **Compute** an investment centre's return on investment (ROI), residual income (RI), and economic value added (EVA).
- 4 **Explain** how a manager can improve ROI.

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Learning Objectives (con'd)

5. **Describe** some advantages and disadvantages of both ROI and residual income as divisional performance measures.
6. **Explain** how to measure a division's income and invested capital.
7. **Use the general economic rule to set an optimal transfer price.**
8. **Explain how to base a transfer price on market prices, costs, or negotiations.**

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Responsibility Accounting

Accounting is also structured to measure the performance of people and/or departments to foster goal congruence.

A Responsibility centre is a subunit in an organization whose manager is held accountable for specified financial results.

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Responsibility Centres (cont'd)

Cost Centre
Segment has control over the incurrence of costs.



The Paint Department in an automobile plant.

Revenue Centre
Segment is responsible for the revenue of a unit because of control.



The Reservations Department of an airline.

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Responsibility Centres (cont'd)

Profit Centre
Segment has control over both costs and revenues.



Company-owned restaurant in a fast-food chain.

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Investment Centre
Segment has control over profits and invested capital.



A division of a large corporation.

Performance Reports

	Flexible Budget*		Actual Results*		Variance	
	February	Year to Date	February	Year to Date	February	Year to Date
Company	\$30,650	\$64,867	\$30,716	\$64,673	\$66 F	\$13 F
Mau Division	\$18,400	\$38,820	\$18,470	\$38,630	\$70 F	\$10 F
Maui Division	\$2,200	\$5,047	\$2,246	\$5,943	\$46 U	\$74 U
Total profit	\$10,050	\$6,000	\$10,000	\$6,100	\$50 F	\$10 F
Costs						
Wailea Beach Resort	\$6,050	\$12,700	\$6,050	\$12,740	\$10 F	\$40 F
Diamond Head Lodge	2,100	4,500	2,050	4,430	50 U	70 U
Maui Office	4,100	8,347	4,196	8,773	96 F	23 F
Total profit	\$10,250	\$25,847	\$10,246	\$25,546	\$44 U	\$74 U
Overhead						
Stores: Goods Shown						
Grounds and Maintenance	(\$45)	(\$90)	(\$44)	(\$90)	\$1 F	—
Housekeeping and Custodial	(40)	(90)	(41)	(90)	1 U	—
Recreational Services	60	85	41	68	1 F	\$3 F
Other	2,800	6,000	2,840	6,030	40 F	30 F
Total	\$3,375	7,085	\$3,340	7,082	\$35 F	\$3 U
Administrative						
Advertising	\$4,110	\$8,742	\$4,136	\$8,770	\$26 F	\$28 F
Printing	600	\$1,200	\$605	\$1,265	\$5 F	\$5 F
Telephone	1,785	3,750	1,760	3,740	25 U	10 U
Travel	—	—	—	—	—	—
Depreciation	—	—	—	—	—	—
Total profit	\$1,305	\$2,842	\$1,340	\$2,832	\$35 U	\$10 U
Other						
Ribbon staff wages	(\$80)	(\$168)	(\$78)	(\$169)	\$2 F	\$1 U
Food	(\$78)	(\$1,420)	(\$78)	(\$1,421)	3 U	1 U
Paper products	(120)	(250)	(115)	(248)	5 F	2 F
Variable overhead	(75)	(150)	(71)	(154)	4 U	4 U
Fixed overhead	(55)	(180)	(53)	(181)	2 F	1 U
Total expense	\$1,638	\$3,066	\$1,630	\$3,073	\$8 F	\$11 U

*Numbers in bold parentheses denote profit, numbers with parentheses denote expenses, numbers in thousands.
 †F denotes favorable variance, U denotes unfavorable variance.

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Measuring Performance in Investment Centres

Investment Centre managers make decisions that affect both profit and invested capital.



Corporate Headquarters

Investment/Profit Centre Evaluation

1. Return on investment,
2. Residual income, or
3. Economic value added.

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Return on Investment (ROI)

$$ROI = \frac{\text{Income}}{\text{Invested Capital}}$$



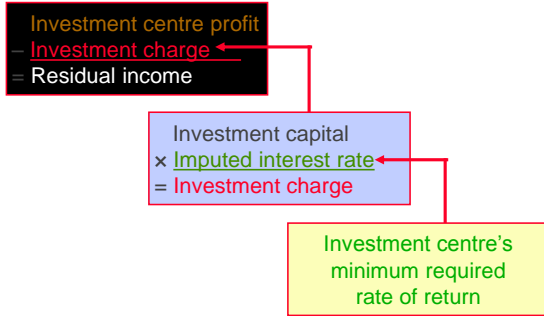
$$ROI = \frac{\text{Income}}{\text{Sales Revenue}} \times \frac{\text{Sales Revenue}}{\text{Invested Capital}}$$

Sales Margin

Capital Turnover

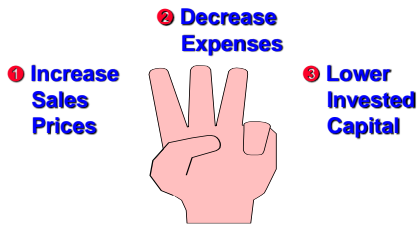
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Residual Income



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Improving ROI



Three ways to improve ROI

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ROI Advantages and Disadvantages

- ROI measures return in a percentage form rather than in absolute dollars, which is helpful when comparing segments of different sizes.
- A drawback to using ROI is the potential of decreased goal congruence.

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Residual Income Advantages and Disadvantages

- As long as the residual income of a project is a positive amount, the project is deemed attractive because it increases a manager's income pool. Thus, any project that returns more than the corporate goal will be accepted in accordance with top management's desire.
- Since residual income is expressed in absolute dollar terms, *an analyst* forfeits the ability to compare firms/divisions of differing sizes on a common basis.

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In Summary

Both ROI and residual income are useful, but both tools have drawbacks. Therefore, companies will use a combination of ROI and residual income (as well as other measures) to evaluate performance.

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Issues: Measuring Investment Capital

3 issues must be considered before we can properly measure the investment capital:

First, what assets should be included?

1. Total assets.
2. Total productive assets.
3. Only the assets controllable by the manager being evaluated.

Second : Should we use beginning or ending values?

Third Issue

Should the assets be shown at historical or current cost?

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General-Transfer-Pricing Rule

$$\text{Transfer price} = \begin{matrix} \text{Additional outlay} \\ \text{cost per unit} \\ \text{incurred} \\ \text{because} \\ \text{goods are} \\ \text{transferred} \end{matrix} + \begin{matrix} \text{Opportunity} \\ \text{cost} \\ \text{per unit to the} \\ \text{organization} \\ \text{because of} \\ \text{the transfer} \end{matrix}$$

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Scenario I: No Excess Capacity

- The Battery Division makes a standard 12-volt battery.

Production capacity 300,000 units
 Selling price per battery \$40 (to outsiders)
 Variable costs per battery \$18
 Fixed costs per battery \$7 (at 300,000 units)



- The Battery division is currently selling 300,000 batteries to outsiders at \$40. The Auto Division can use 100,000 of these batteries in its X-7 model.

What is the appropriate transfer price?

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Scenario I: No Excess Capacity (cont'd)

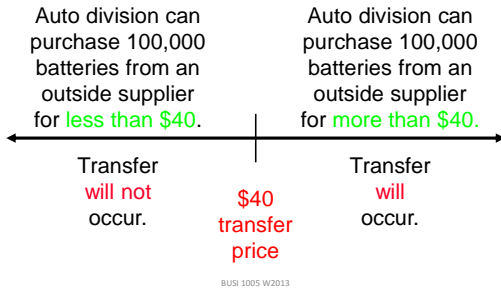
$$\text{Transfer price} = \begin{matrix} \text{Additional outlay} \\ \text{cost per unit} \\ \text{incurred because} \\ \text{goods are} \\ \text{transferred} \end{matrix} + \begin{matrix} \text{Opportunity cost} \\ \text{per unit to the} \\ \text{organization} \\ \text{because of} \\ \text{the transfer} \end{matrix}$$

$$\text{Transfer price} = \$18 \text{ variable cost per battery} + \$22 \text{ Contribution lost if outside sales given up}$$

$$\text{Transfer price} = \$40 \text{ per battery}$$

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Scenario I: No Excess Capacity (cont'd)



Scenario I: No Excess Capacity (cont'd)



When the selling division is operating at capacity, the transfer price should be set at the market price.

Q. What if mktg. costs are less if sold internally ?

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Scenario II: Excess Capacity

- The Battery Division makes a standard 12-volt battery.

Production capacity 300,000 units
 Selling price per battery \$40 (to outsiders)
 Variable costs per battery \$18
 Fixed costs per battery \$7 (at 300,000 units)



- The Battery division is currently selling 150,000 batteries to outsiders at \$40. The Auto Division can use 100,000 of these batteries in its X-7 model. It can purchase them for \$38 from an outside supplier.

What is the optimal transfer price?

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Scenario II: Excess Capacity

Transfer price = Additional outlay cost per unit incurred because goods are transferred + Opportunity cost per unit to the organization because of the transfer

Transfer price = \$18 variable cost per battery + \$0

Transfer price = \$18 per battery
Optimal TP is lower BUSI 1005 W2013

Scenario II: Excess Capacity

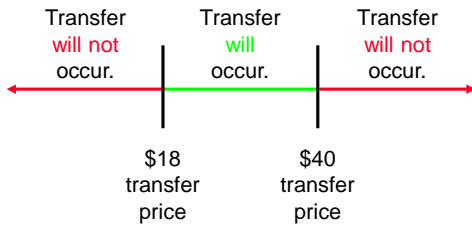


When the selling division is operating below capacity, the **minimum** transfer price is the variable cost per unit.

So, the transfer price will be no lower than \$18, and no higher than \$40.

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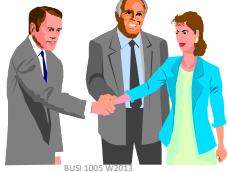
Scenario II: Excess Capacity



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Setting Transfer Prices

The value placed on transfer goods is used to make it possible to transfer goods between divisions while allowing them to retain their autonomy. **What is autonomy?**



Setting Transfer Prices

Conflicts may be resolved by . . .

1. Direct intervention by top management.
2. Centrally established transfer price policies.
3. **Negotiated transfer prices.**
4. **Market based pricing**



Setting Transfer Prices (cont'd)

Top management may become swamped with pricing disputes causing division managers to lose autonomy.



Undermining Divisional Autonomy

Transfer prices are used in a decentralized environment where managers have authority to make decisions and control operations.

When disputes arise, top management should step aside and let the division managers resolve the issues. Intervention would decrease the divisional autonomy. However, sometimes upper mgmt. steps in. When?

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An International Perspective

Since tax rates and import duties are different in different countries, companies have incentives to set transfer prices that will:

1. Increase revenues in low-tax countries.
2. Increase costs in high-tax countries.
3. Reduce cost of goods transferred to high-import-duty countries.

WE COVER INTENATIONAL TRANSFER PRICING IN BUSI 3008.



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