Patrician College of Arts and Science

Department of Commerce Subject Code: CPZ6B

Presented By

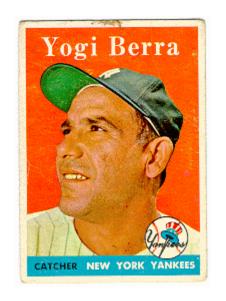
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"We made too many wrong mistakes."

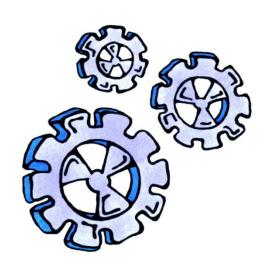




"When you come to a fork in the road, take it!"

Section Four: Cost Concepts and Analysis

Switching Gears





A Potpourri of Management Accounting Topics



Let's see what's in the managerial accounting bag!

Managerial Accounting Vs. Financial Accounting



External Uses

Financial Reporting (Bank Loans)

Financial Reporting (Owners/Investors)

Financial Reporting (Taxation)



Accounting System

Managerial Accounting

Determine Cost Per Unit Performance Evaluation

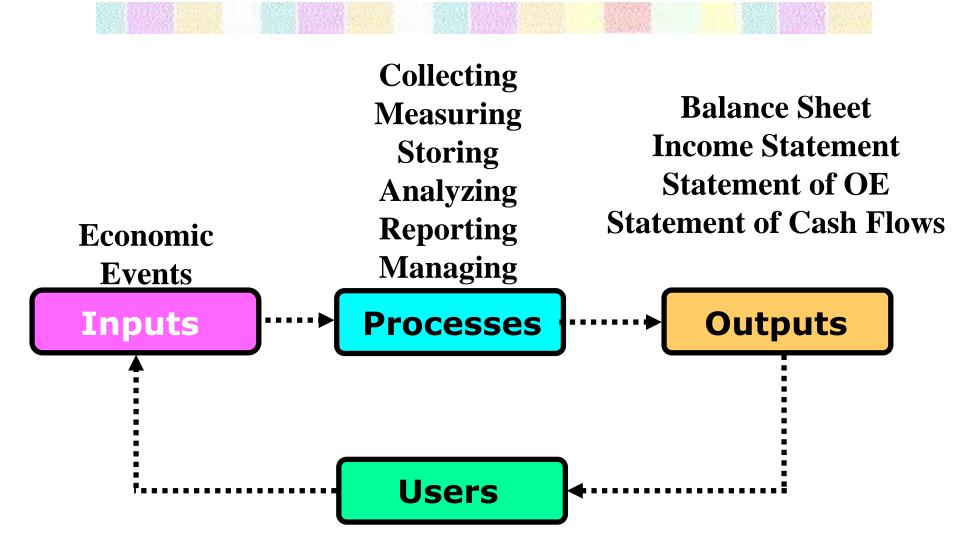
Non-Routine Decisions

Internal Uses

Financial Accounting

- External Focus
- Follows externally imposed rules (GAAP)
- Objective financial information
- Historical orientation
- Information about the firm as a whole (highly summarized)

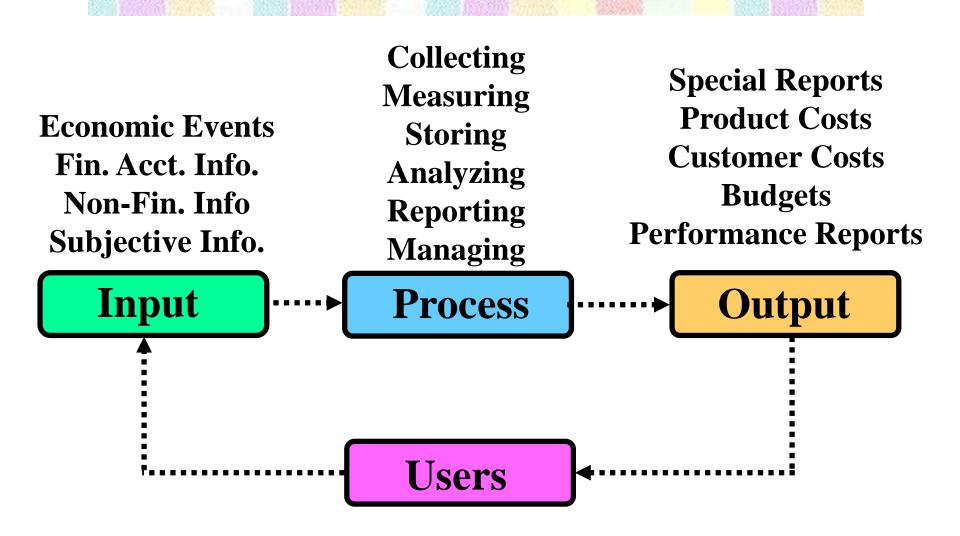
Financial Accounting Information Systems



Managerial Accounting

- Internal Focus
- No mandatory rules
- Both financial and nonfinancial information utilized; subjective information possible
- Emphasis on future (heavy use of historical data)

Management Accounting Information Systems



Management Accounting

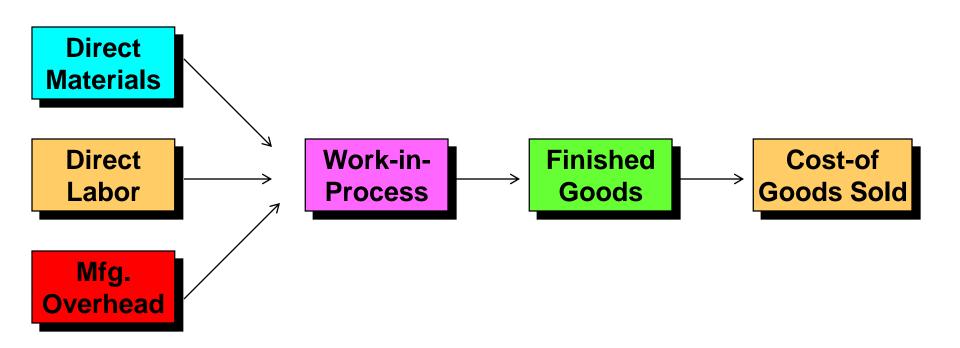
- Provides information to management for . . .
 - Costing product/service
 - Performance evaluations
 - Various non-routine decisions

Management Cost Accounting in a Manufacturing Firm



Yes! A General Model of Cost Flow and Accumulation!

Cost Flows in a Manufacturing Firm



Cost Flows

Manufacturing Costs

Costs incurred in the manufacture of goods being produced.

Direct Materials

Direct Labor

Mfg. Overhead ·Known as <u>product</u> (inventoriable) costs.

They are expensed when the product is sold.

Cost Flo *Those materials that become an integral part of the finished product and can be physically traced to the product.

Direct **Materials**

> **Direct** Labor

Mfg. **Overhead** *Those factory labor costs that can be physically traced to the production of the finished product.

* All costs associated with the manufacture of a product except direct materials and direct labor.

Direct

- Known as <u>Period</u> costs.
- •They are expensed in the period in which they are incurred.

Statement

Nonmanufacturing Costs

Costs incurred for other than production activities.

Cost of

s Sold

Gross Margin

in-

SS

Nonmanufacturing Expenses

Net Income

*General & Administrative Expenses

All executive, organizational, and clerical costs associated with the general management of the firm.

Selling & Distribution Expenses

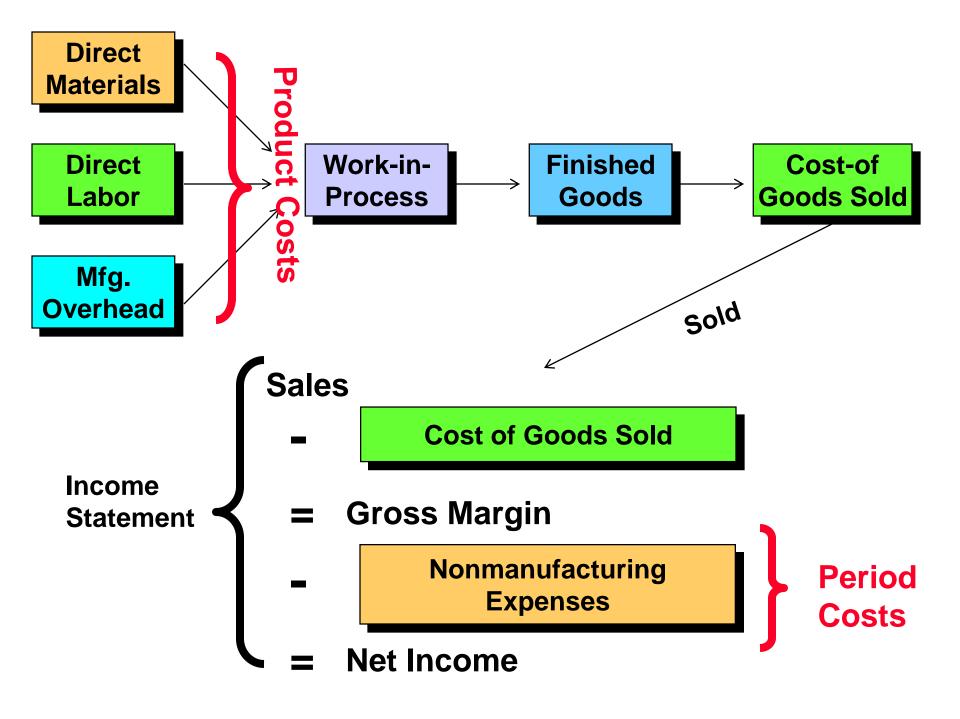
All costs necessary to secure customer orders and get the products/services to the customer.

Income Statement

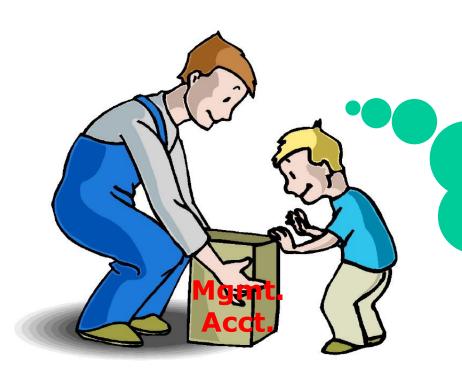
= Gross Margin

Nonmanufacturing Expenses

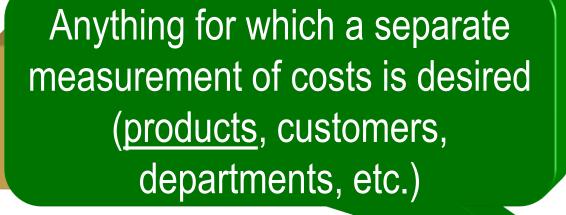
Net Income



Some Other Definitions



Definitions!
Oh good! I
love
definitions!



Cost Object

Indirect Costs



Direct Costs

Costs that are related to and directly traceable to the identified cost objective.

(Direct Material, Direct Labor)

Cost

Indirect Costs Costs that are related to, but not traceable to, the identified cost objective. (Manufacturing overhead)

Cost is defined as . . .

. . . the value of assets given up, or to be given up, to acquire other assets.

Cost is defined as . . .

. . . the cash or cash equivalent value sacrificed for goods and services that are expected to bring a current or future benefit to the organization.

Cost is defined as . . .

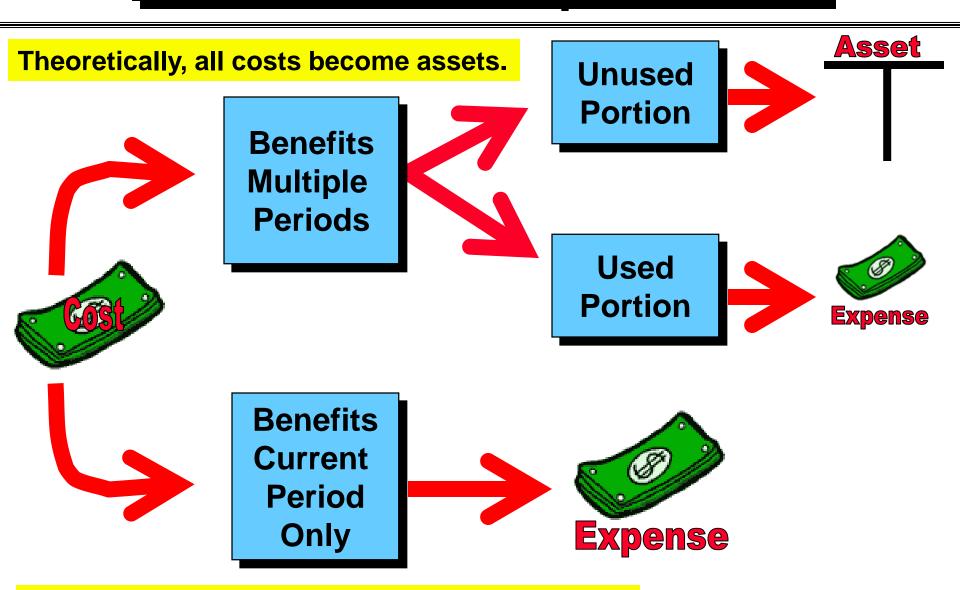
. . . the cash or cash equivalent value sacrificed for goods and services that are expected to bring a current or future benefit to the organization.

Expense . . .

 The value of assets given up to generate revenue.

An expired cost.

Cost Vs. Expense



But often are charged to expense immediately.

For Managerial Accounting:

- A cost can be classified in many different ways.
- An <u>adjective</u> is used to describe costs (i.e., to signify their purpose).

Opportunity Cost

 The benefit given up or sacrificed when one alternative is chosen over. Another.

Other Adjectives . . .

- Manufacturing/ Nonmanufacturing Costs
- Period/Product Costs
- Fixed/Variable Costs

Other Adjectives . . .

- Selling/Administrative Costs
- Differential Cost
- Sunk Cost

Relevant Costs

- Any cost that is a <u>future</u> cost
- Any cost that <u>differs among</u> <u>alternatives</u> and will influence the outcome,
- Any cost that is <u>avoidable</u>

Avoidable Cost

 A cost that can be eliminated (in whole, or in part) as a result of choosing one alternative over another.

Sunk Costs . . .

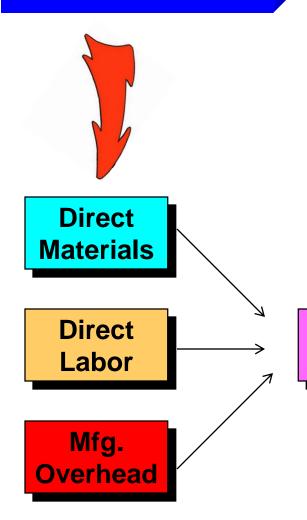
- Costs that have been incurred or committed in the past.
- Sunk costs are irrelevant because the decision maker no longer has discretion over them.

Issues in Managerial Accounting

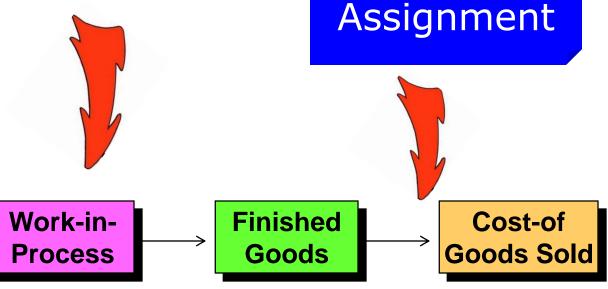


Yeah! A look at managerial accounting issues!

Cost Measurement



Cost Accumulation

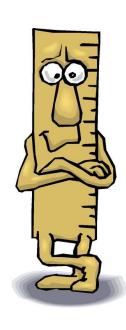


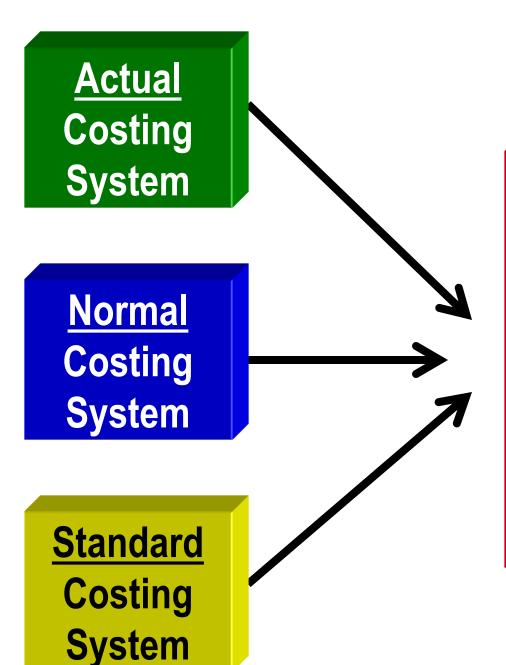
Cost

Goal: Accurately costed products.

Cost Measuremen t









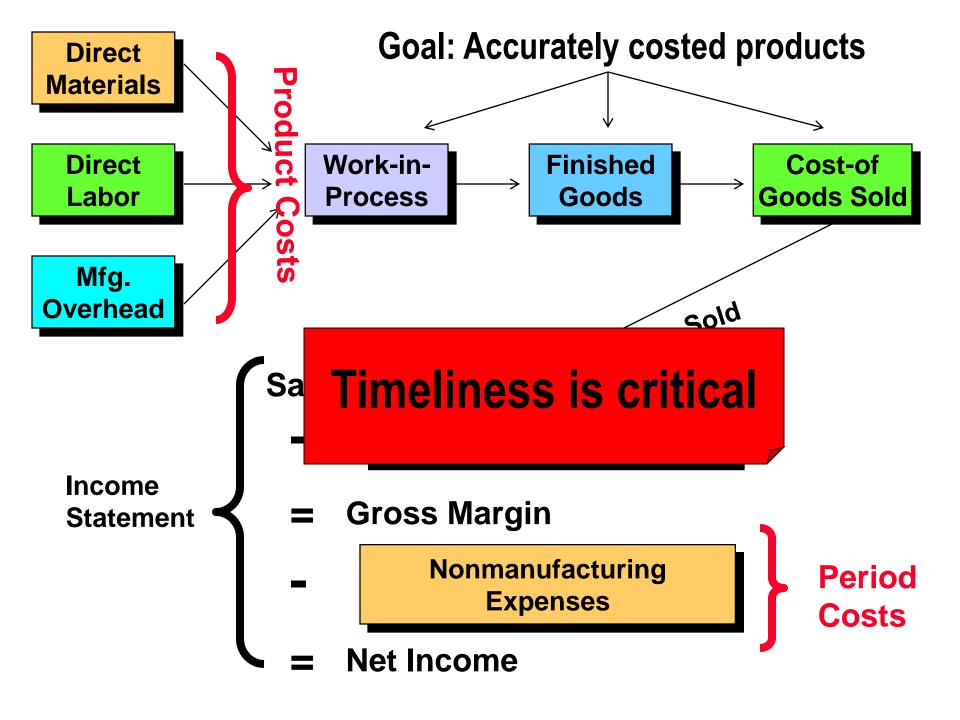
Actual Costing System

Costs charged to production:

- 1. Actual Direct Materials
- 2. Actual Direct Labor
- 3. <u>Actual</u> Manufacturing Overhead

Normal Costing System

Standard Costing System



Actual Costing System

Normal Costing System

Standard
Costing
System

Costs charged to production:

- 1. Actual Direct Materials
- 2. Actual Direct Labor
- 3. Estimated Manufacturing Overhead

Let's look at this.

Predetermined Overhead Rate (POR)

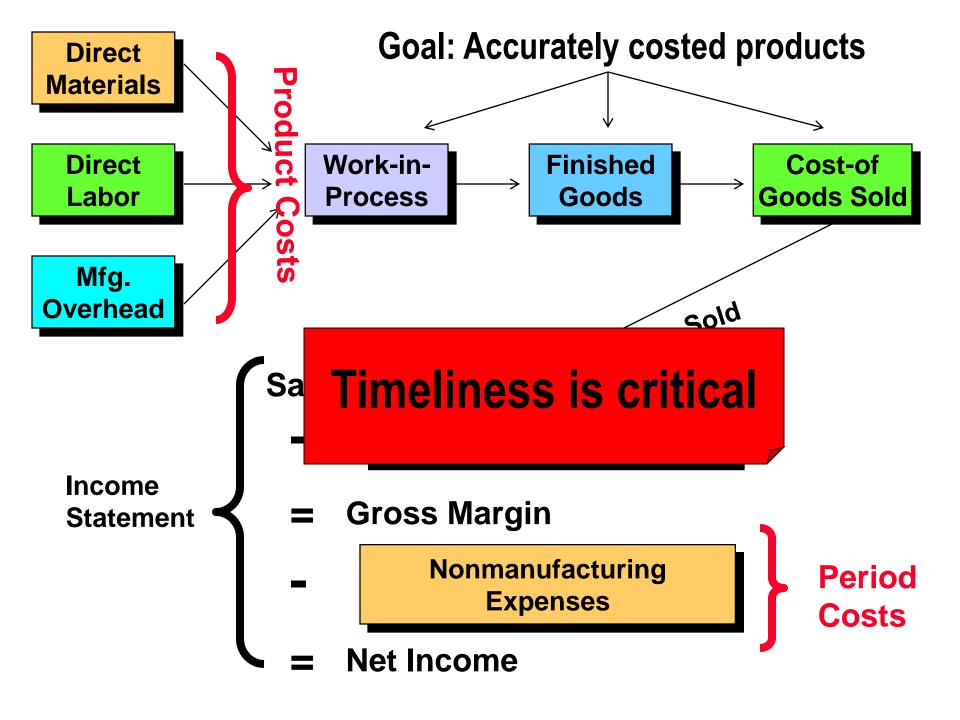
Estimated Overhead

Budgeted Overhead

POR =

Budgeted Activity Usage

Estimated Activity Base



Actual Costing System

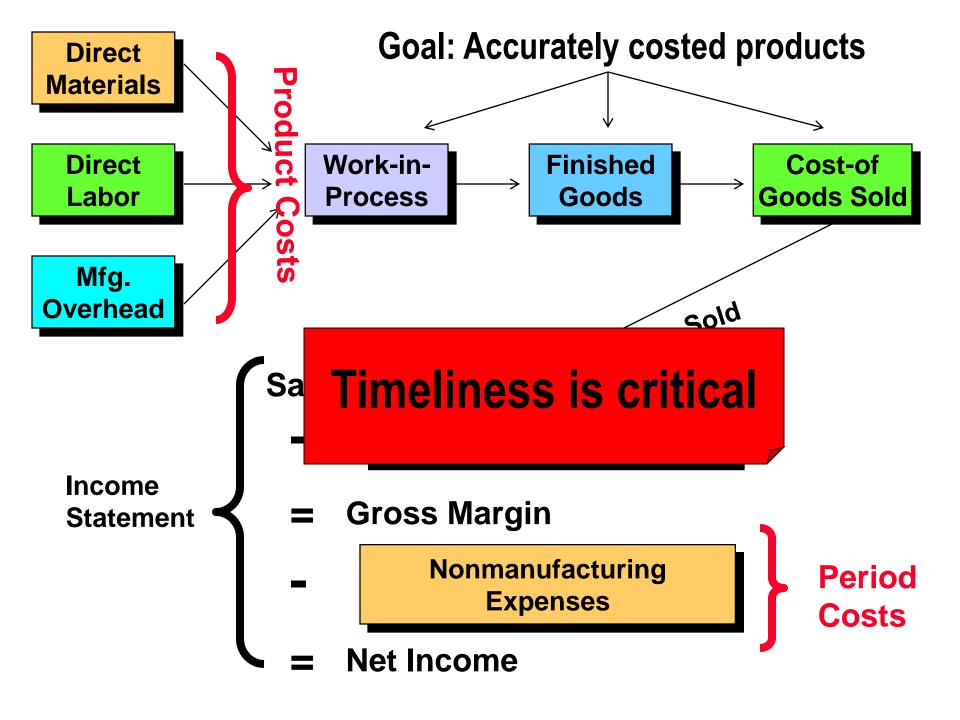


Normal Costing System

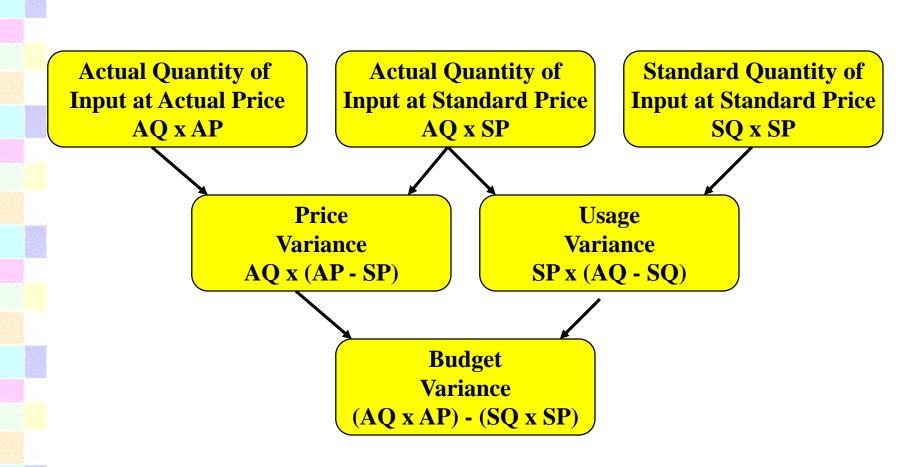
Costs charged to production:

- 1. Standard Direct Materials
- 2. Standard Direct Labor
- 3. <u>Standard</u> Manufacturing Overhead

Standard Costing System



Variance Analysis: General Description

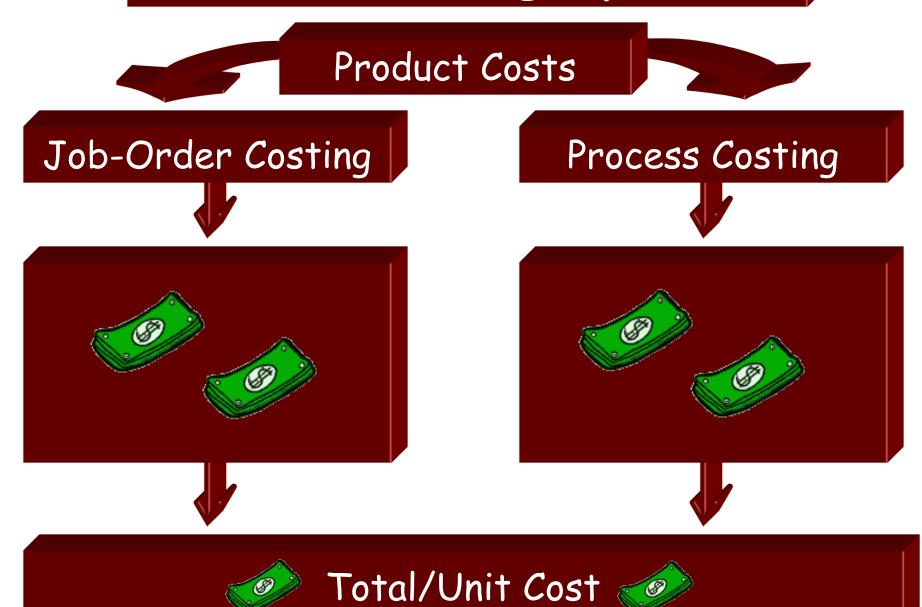


Cost Accumulation





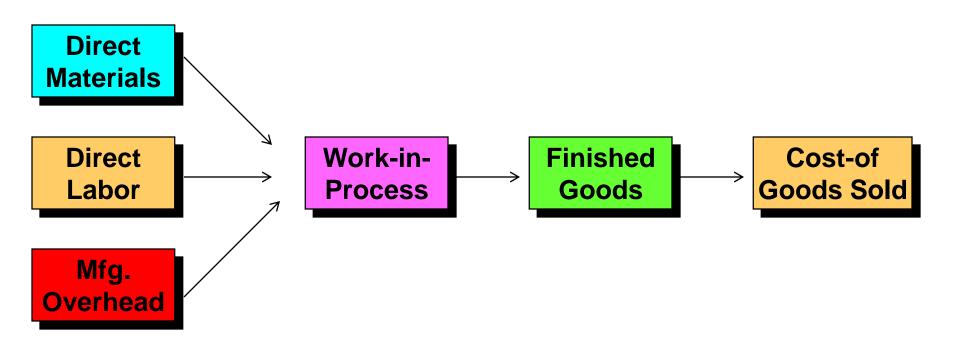
Cost Accounting Systems



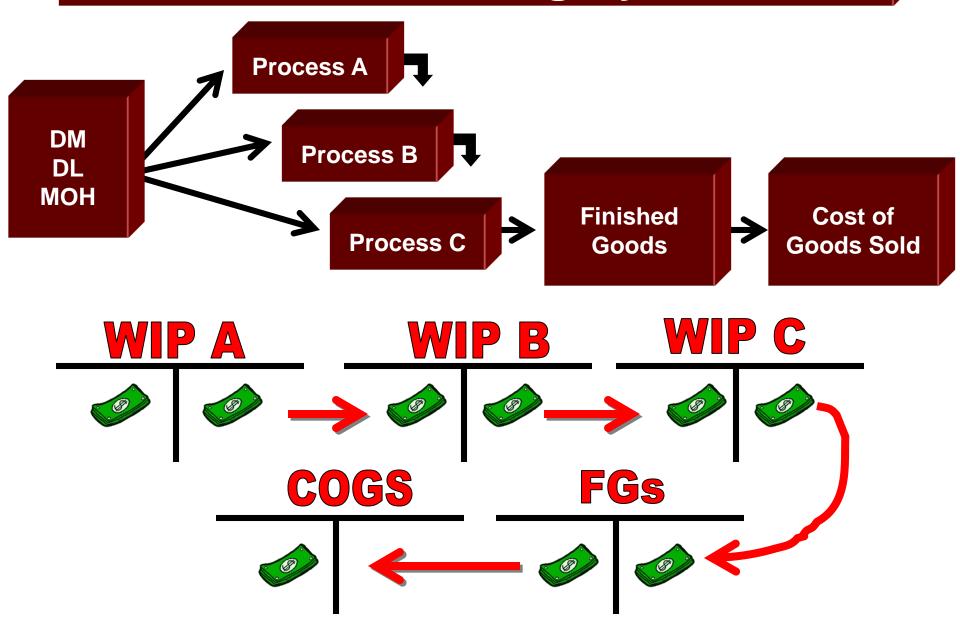
Process Costing . . .

- Homogeneous products continuously produced.
- Costs accumulated by process (time).
- Unit cost = total cost for period divided by number of units produced.

Cost Flows in a Manufacturing Firm



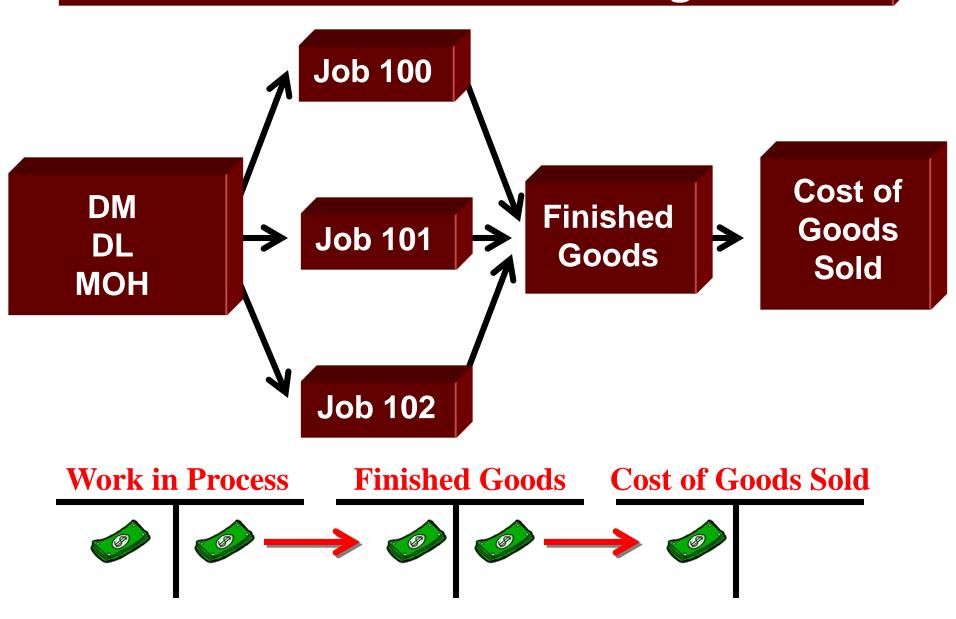
Process Costing System



Job-Order Costing . . .

- Wide variety of distinct products.
- Costs accumulated by job.
- Unit cost = total cost of job divided by number of units produced.

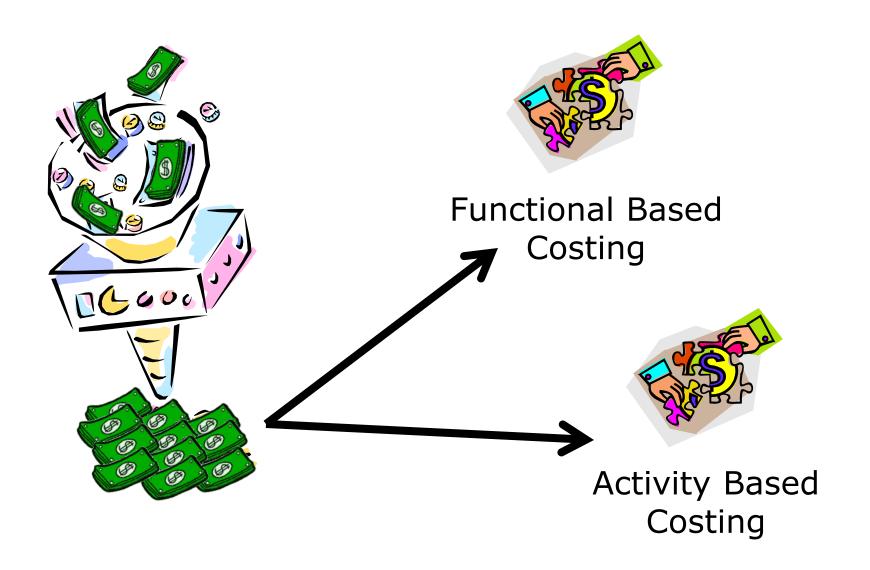
Job-Order Costing



Cost Assignment



Assigning Manufacturing Costs



Good! Cost Behavior!



Cost Behavior

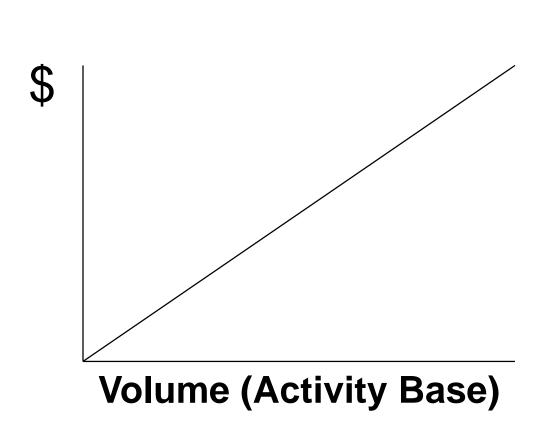
- Variable Costs
- Fixed Costs
- Mixed Costs

Variable Costs

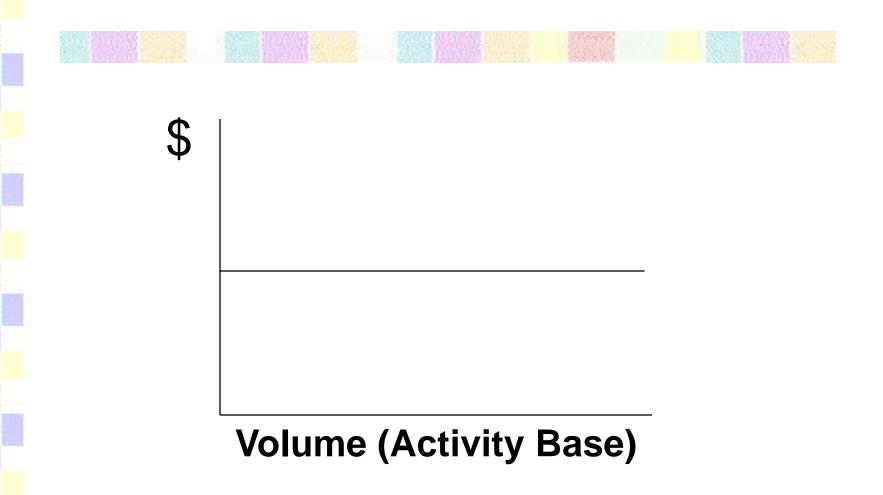
Variable Costs

 Total costs that vary in direct proportion to changes in the level of activity within the relevant range.

Total Variable Costs

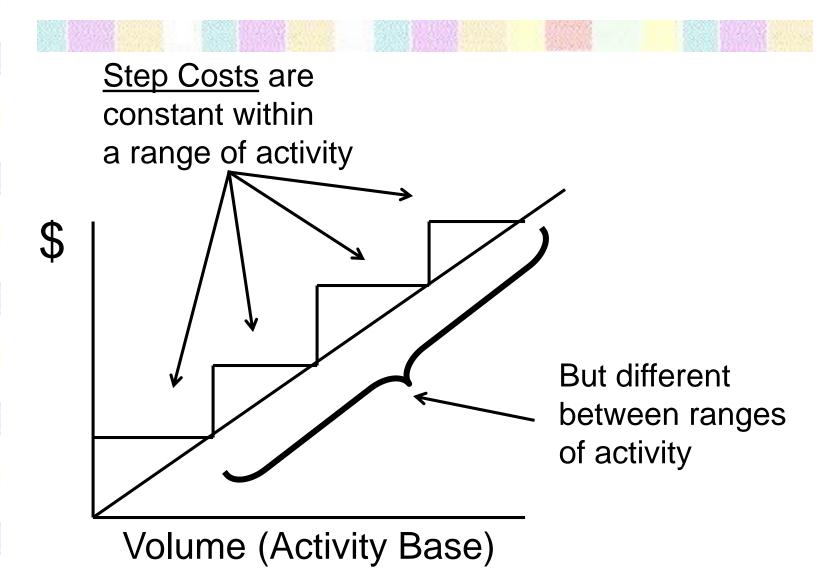


Per Unit Variable Cost



Step-Variable Costs

Step Variable Costs

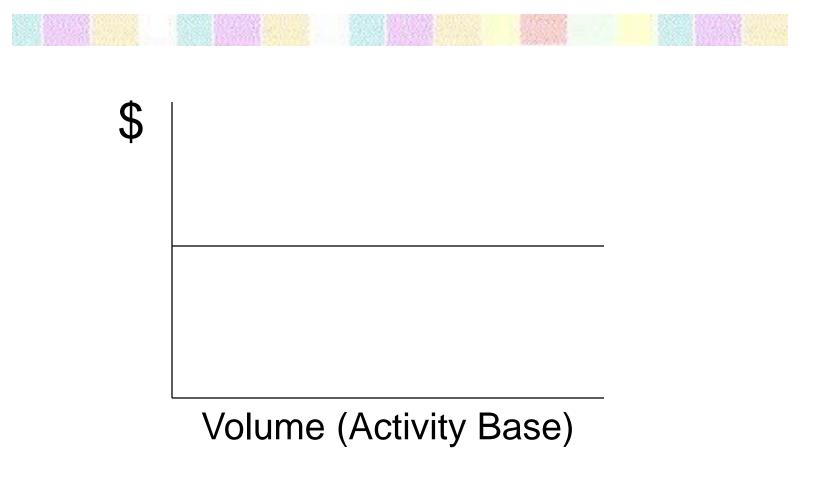


Fixed Costs

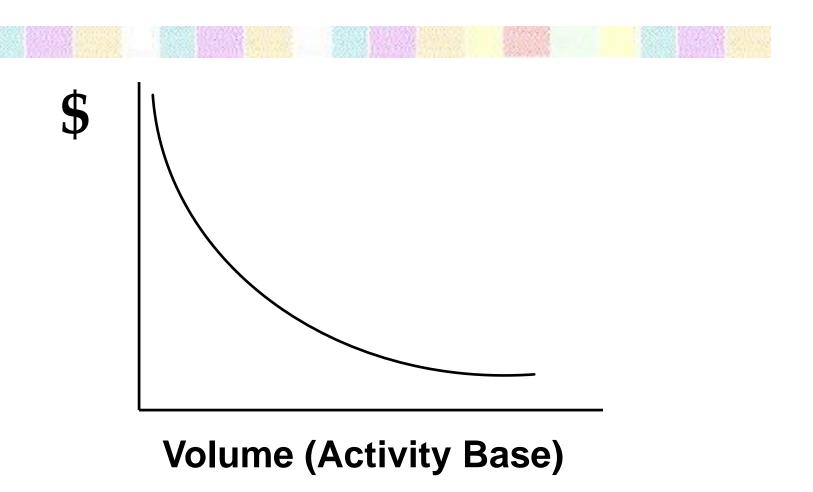
Fixed Costs

 Costs that remain constant in total, regardless of the changes in activity within the relevant range.

Total Fixed Costs

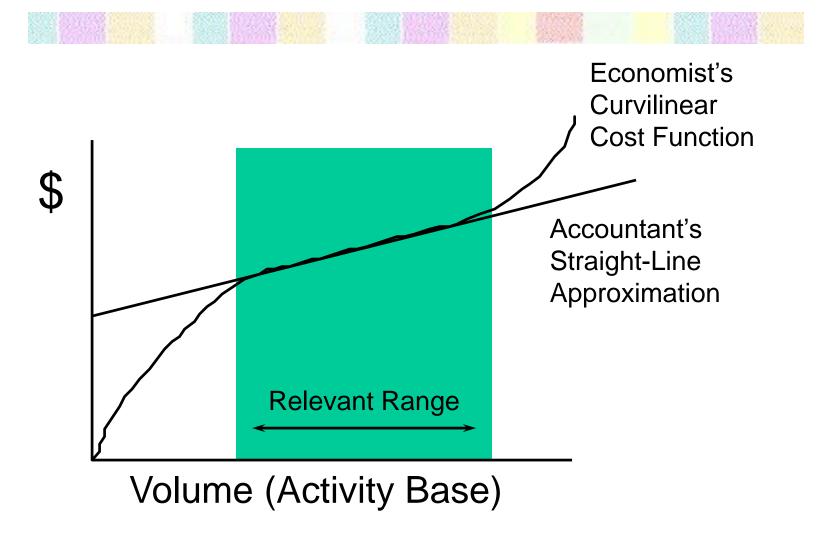


Per Unit Fixed Costs



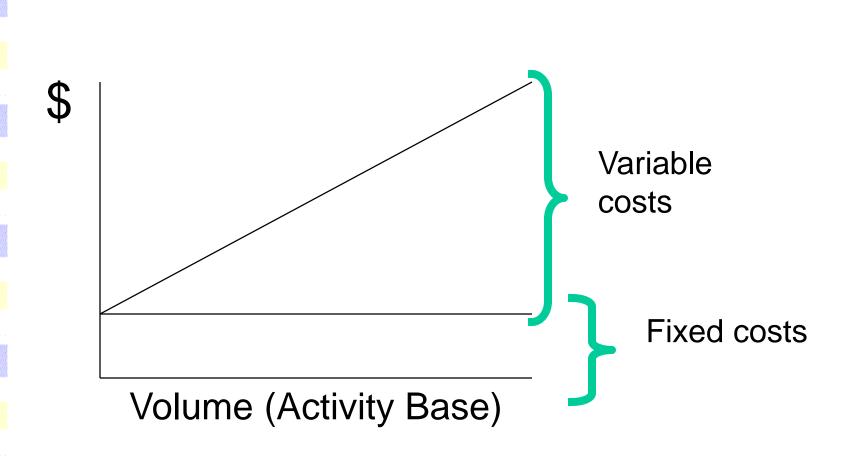
Relevant Range

Curvilinear Costs and the Relevant Range



Mixed Costs

Mixed Costs



Cost-Volume-Profit Analysis! That's my very favorite!



Cost-Volume-Profit (CVP)

- CVP is the systematic examination of the relationships among . . .
 - Selling prices,
 - Volume of Sales and Production
 - Cost,
 - Expenses, and
 - Profits

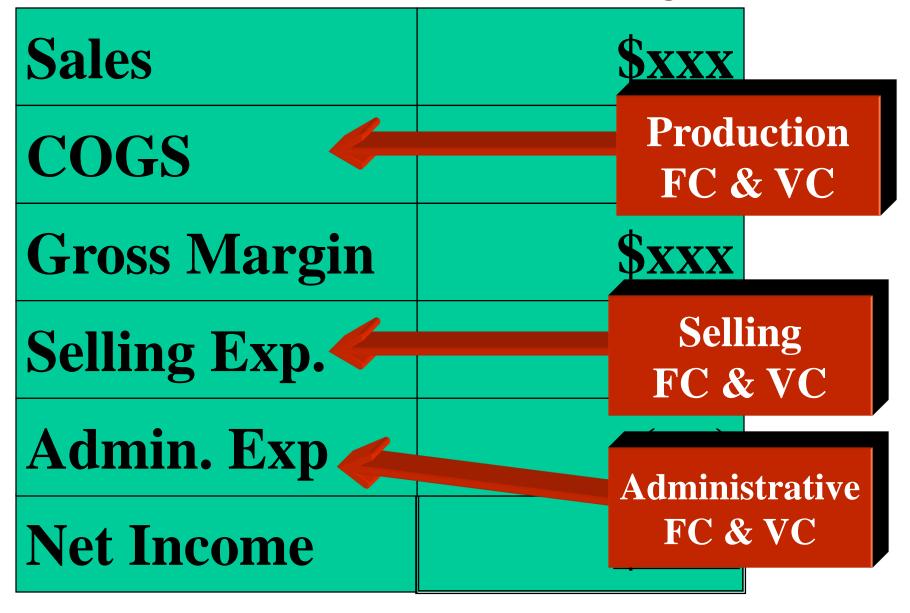
What happens As changes Graphically ++++ occur here. $\rightarrow \rightarrow \rightarrow \rightarrow$ here? **Total Total** Revenues Revenues Output Sales Total **Total Price** Cost Cost Variable Costs **Operating Fixed Operating** Costs Income **Income**

Traditional Income Statement

Traditional Income Statement

- Costs are grouped by functional classifications - such as:
 - Production,
 - Marketing, and
 - Administration
- With both fixed and variable costs being included in each category.

Absorption-Costing I/S



The Contribution Format Income Statement

The Contribution Margin

 The focus of the contribution format income statement is the contribution margin . . .

Contribution Margin = Net Sales - Variable Costs

Contribution Format I/S

- Groups costs by behavior:
 - Fixed, and
 - Variable
- Rather than into the functional categories of production, marketing and administration.

Variable-Costing I/S

Sales	\$xxx
Variable Costs	<u>(xx)</u>
Cont. Margin	\$xxx
Fixed Costs	(xx)
Net Income	<u>\$xxx</u>

Income Statements . . .

Traditional

Sales	\$xxx
Cost of Goods Sold	<u>(xx)</u>
Gross Margin	\$xxx
Operating Expense	<u>(xx)</u>
Net Income	\$xxx

Contribution Format

Sales	\$xxx
Variable Costs	<u>(xx)</u>
Cont. Margin	\$xxx
Fixed Costs	<u>(xx)</u>
Net Income	<u>\$xxx</u>







Assemble all costs associated with each alternative



Eliminate those costs that are sunk.



Eliminate those costs that do not differ between alternatives.



Make a decision based on the remaining costs.

When is a Cost Relevant?

When does the cost arise?

Does the cost differ between alternatives?

	Past	Future
Yes	Sunk	Relevant
No	Sunk	Not Relevant

Limiting Assumptions of Cost-Volume-Profit Analysis

Limiting Assumptions of CVP

- 1. Revenues and costs behave linearly throughout the relevant range.
- 2. Costs can be reasonably separated into variable and fixed elements.
- 3. The sales mix remains constant

Limiting Assumptions of CVP

- 4. Sales for the period equals production, or the beginning inventory level is equal to the ending inventory level.
- 5. Productivity and efficiency remains constant during the relevant range.

Limiting Assumptions of CVP

- 6. Volume is the only factor which causes changes in costs.
- 7. The time value of money is not considered.