

bc

Cost Accounting

Author: Collins Qian Reviewer: Bob Armacost



- Importance of cost allocation
- Client example
- Definitions
 - -direct vs. indirect, fixed vs. variable
 - -breakeven volume
- Exercises
 - -cost allocation
 - -breakeven volume
- Key takeaways

— bc

BOS CU7122397ECA 2

• Importance of cost allocation

• Client example

Definitions

-direct vs. indirect, fixed vs. variable

-breakeven volume

• Exercises

-cost allocation

-breakeven volume

Key takeaways

— bc

BOS CU7122397ECA 3

Why Allocate Costs?

It is critical to have accurate and complete cost data to make sound strategic and tactical management decisions.

- Which products are profitable?
- What is the breakeven volume by product?
- Which products require cost reduction efforts?
- How should we price our products?
- Which customer segments are most profitable?

– bc

BOS CU7122397ECA 4

Why Costs Are Often Not Allocated Correctly

Most companies lack accurate cost data by product.

- Historically, only 20% of manufacturing costs were "shared" across product lines. Today, typically 50% of costs are "shared" across products. Shared costs might include rent, freight, and administrative costs.
- For simplicity, accounting tracks costs by function (e.g., materials, salaries, benefits) rather than by the activity devoted to product lines (e.g., maintenance of product A, freight for product B)
- For costs that are not easily assigned to individual product lines, companies normally select the most convenient way to assign them, not necessarily the best way
 - for example, companies tend to allocate rent costs based on something that is easy to measure, such as direct labor dollars for each product line. A better allocation method, however, might be the actual space resource demands of each product line

– bc

BOS CU7122397ECA 5

Importance of cost allocation

• Client example

Definitions

-direct vs. indirect, fixed vs. variable

-breakeven volume

• Exercises

-cost allocation

-breakeven volume

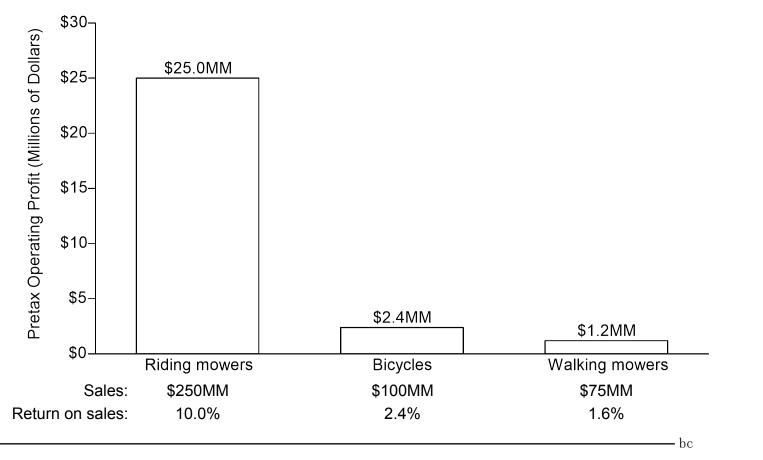
Key takeaways

— bc

BOS CU7122397ECA 6

Middle America Manufacturing - Estimated Profitability

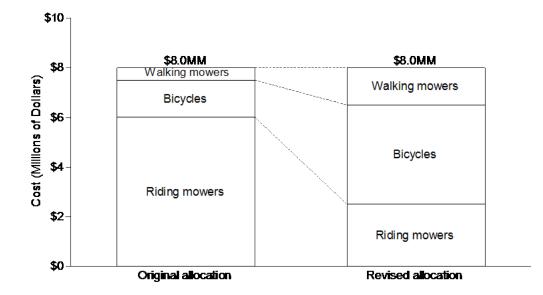
Middle America Manufacturing, a Bain client, believed that all three of its product lines were profitable.



BOS CU7122397ECA 7

Middle America Manufacturing - Cost Allocation

After a thorough evaluation, the Bain team found that \$8.0MM in costs had been allocated incorrectly among the three products.

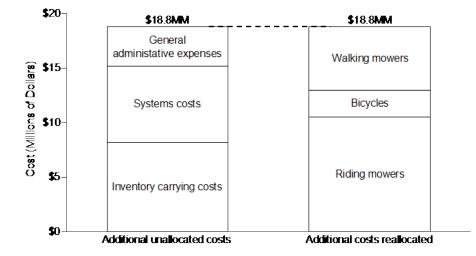


— bc

BOS CU7122397ECA 8

Middle America Manufacturing - Additional Costs

The Bain team also determined that an additional \$18.8MM in costs should be allocated to the three products.



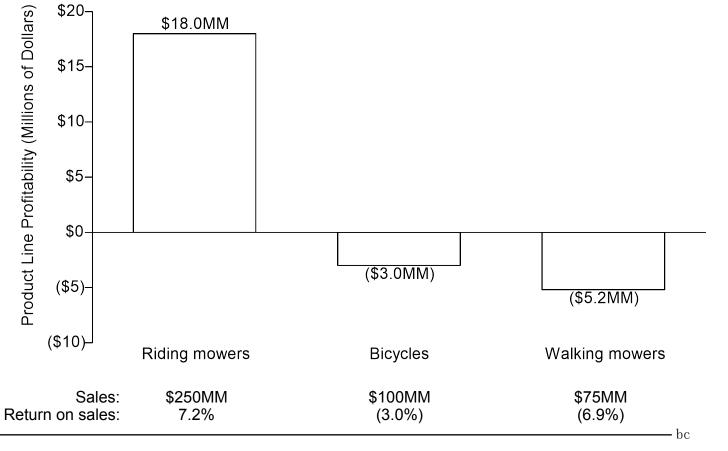
— bc

BOS CU7122397ECA 9

Cost Accounting

Middle America Manufacturing - Actual Profitability

Bain's analysis indicated that both bicycles and walking mowers were unprofitable. Middle America then began to investigate whether to exit or fix these two businesses.



BOS CU7122397ECA 10

Importance of cost allocation

• Client example

Definitions

-direct vs. indirect, fixed vs. variable

-breakeven volume

• Exercises

-cost allocation

-breakeven volume

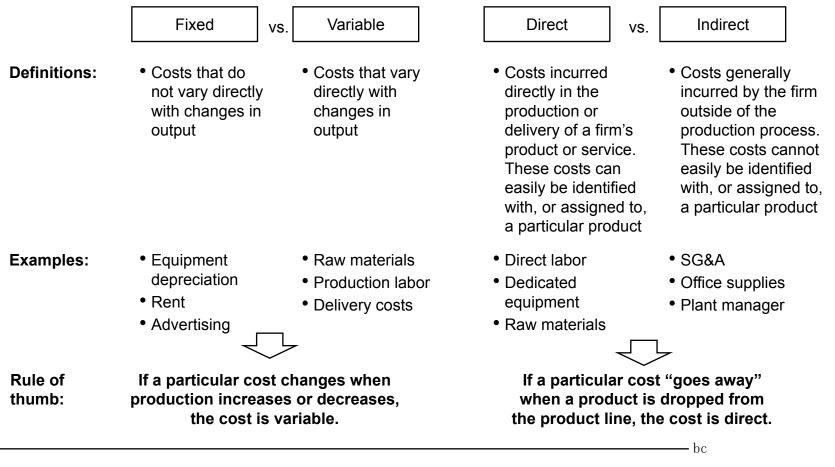
Key takeaways

— bc

BOS CU7122397ECA 11

Types of Costs

All costs can be broken down along two dimensions.



BOS CU7122397ECA 12

Fixed vs. Variable

Defining the appropriate time horizon for the analysis is important.

- All costs are variable over a very long time horizon (i.e., for very large increases in volume)
 - Costs to run and maintain a computer system that tracks product orders are clearly fixed for a small change in volume, such as that associated with a slightly busy month. However, they are variable for a large change in volume, such as that associated with a new plant.
- Most costs are semi-variable (i.e., they tend to be added in lumps as volume increases)
 - Supervisory labor tends to be considered fixed because it is unlikely that additional supervisors would have to be added to handle a small increase, say 10%, in volume. But the workforce can only increase so much before an additional supervisor is needed.
 - In theory, production labor is variable. However, in many client situations, restraints placed by unions and difficulty in hiring and firing people in response to short-term volume fluctuations make it, in practice, semi-variable.



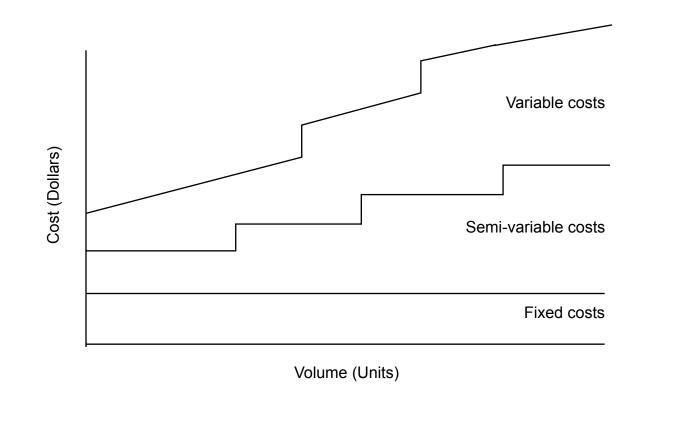
A meaningful analysis will isolate the fixed cost and variable components of a particular cost

– bc

BOS CU7122397ECA 13

Fixed vs. Variable - Illustration

The following is an illustration of cost behavior for fixed, semi-variable, and variable costs:



— bc

BOS CU7122397ECA 14

Income Statement Terms

It is useful to know the following terms when doing cost analysis:

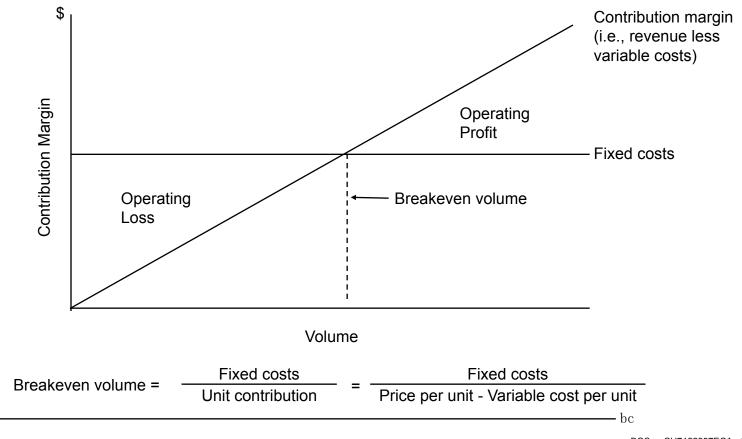
Simplified income		
statement:	Revenue	Revenue = Price per Unit x Volume
	- Variable Cost	
	Gross Margin	Gross margin is also called "Gross Profit," or "Contribution Margin"
	- Fixed Cost	
	Operating Margin	Operating Margin is also called "Operating Profit"

– bc

BOS CU7122397ECA 15

Breakeven Volume

Breakeven volume is the volume at which the company covers its fixed costs. At breakeven volume, the operating profit is zero.



BOS CU7122397ECA 16

以上内容仅为本文档的试下载部分,为可阅读页数的一半内容。如要下载或阅读全文,请访问: <u>https://d.book118.com/967115162130006154</u>