

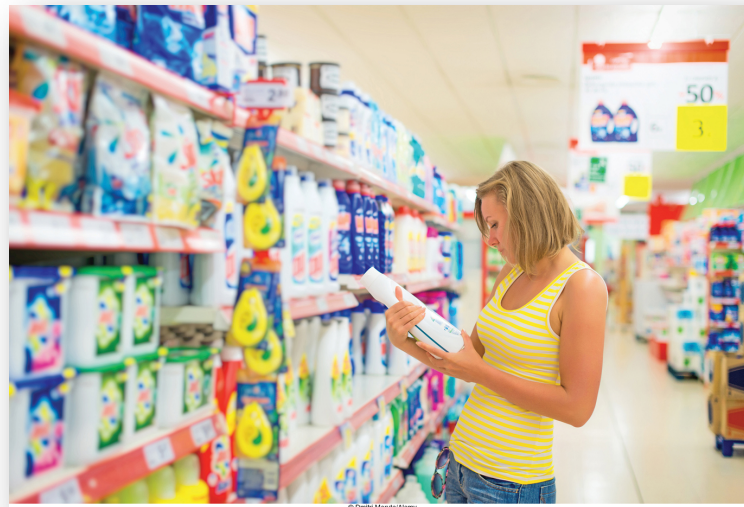
Chapter 14

Pricing Concepts For Establishing Value (Part I)

- List the four pricing orientations
- Explain the relationship between price and quantity sold
- Explain price elasticity
- Describe how to calculate a product's break-even point
- Indicate the four types of price competitive levels

What is price?

Price is **NOT** just what you pay - it's everything that you, as a consumer, give in exchange for the product you purchase (time, effort in finding it, effort spent researching it)

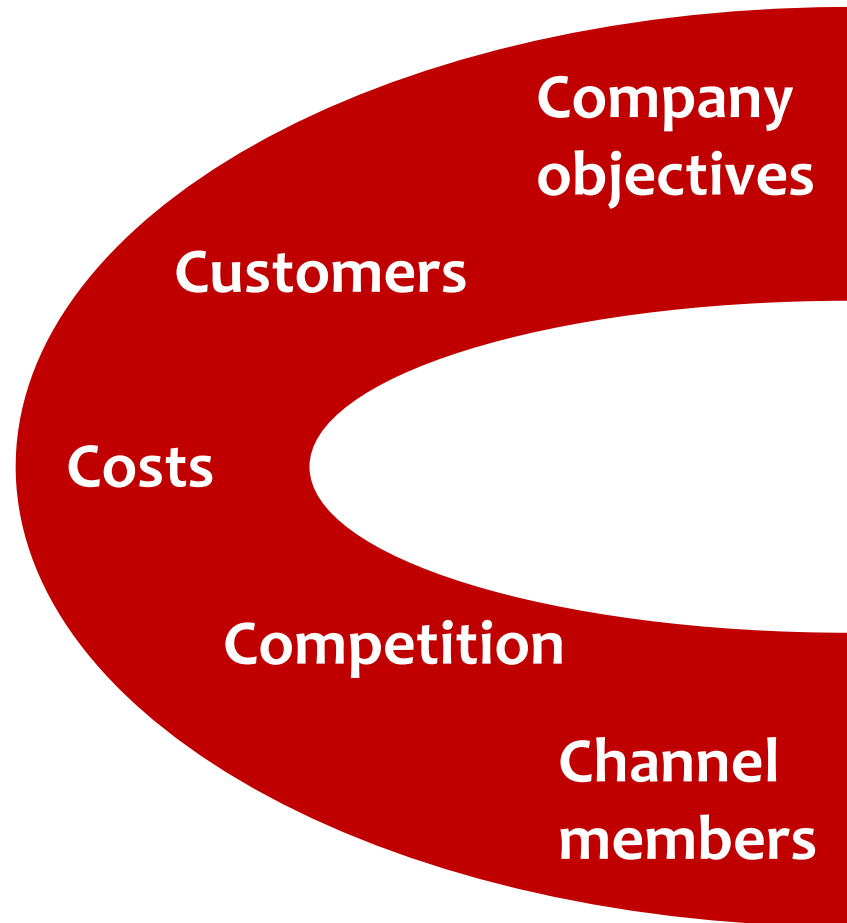


Desperation

- How much battery is left on a traveler's cell phone can help predict whether or not people are going to accept surge pricing!



The 5 C's of Pricing



1. Company objectives

Profit oriented

Target profit pricing → Set profit goal

Example:

Companywide policy that all products must provide for at least an 18% profit margin to reach a particular profit goal for the firm

- Starbucks 1% price increase in 2013

<http://www.priceintelligently.com/blog/bid/184451/How-Starbucks-Uses-Pricing-Strategy-for-Profit-Maximization>

Sales oriented

Set prices to increase sales

- Generally short term strategy

Example:

Set prices very low to generate new sales and take sales away from competitors, even if profits suffer

- Launch of a new product

Competitor oriented

Firms that measure themselves against their competitors

- Set prices similar to competitors

Example (generally product with little differentiation):

- Coke and Pepsi
- Airlines

Customer oriented

Set prices to add value to product/services

- Set high prices to set customers perceptions, e.g., Apple, Rolex
- Could be a problem if quality is low!

Example:

Target a market segment of consumers who highly value a particular product benefit, and set prices relatively high (**premium pricing**)

- Fashion industry
- Luxury goods

1. Company objectives

What's the goal of this ad?

Pizza...Again **OR** Any Food, Anywhere

Drive zipcars from \$7.50/hr.
(yep, cheaper than pizza)
Includes all the toppings
(rent, parking & insurance)

zipcar

The advertisement is a square graphic with a green border. It features a yellow zipcar in the top right and an open pizza box with a pizza inside in the bottom left. A green horizontal bar with the word 'OR' in white is positioned between the car and the pizza. Text is placed around these images to compare the two options.

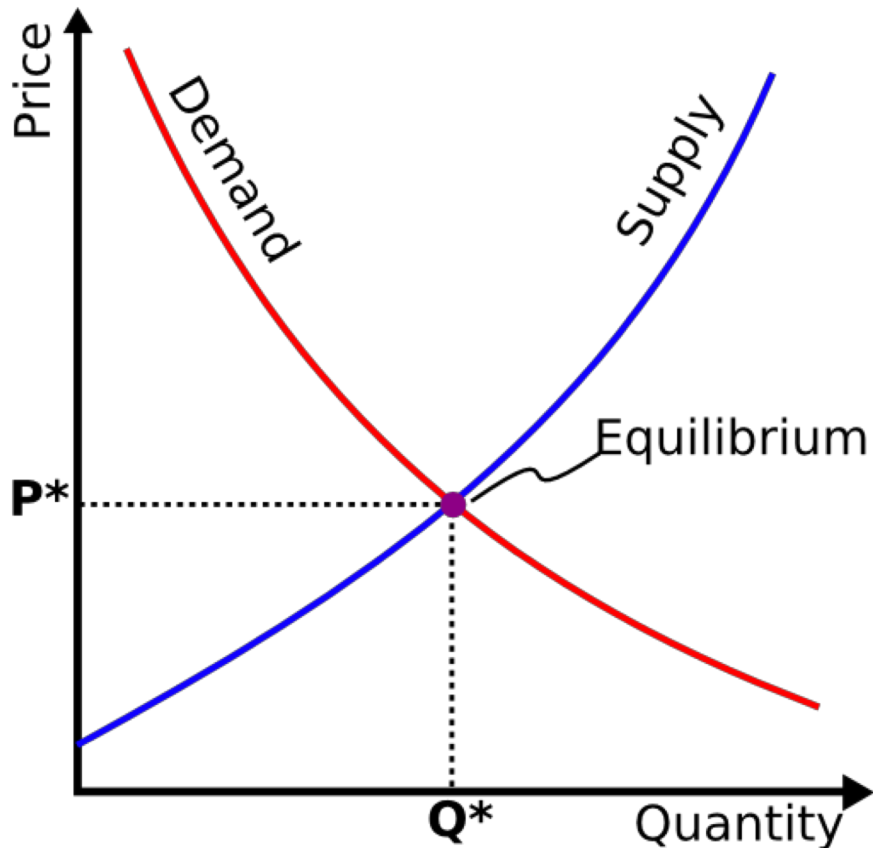
1. Company objectives

What's the goal of this ad?



Plays with consumers expectation by comparing the purchase of a very familiar product to that of Zipcar

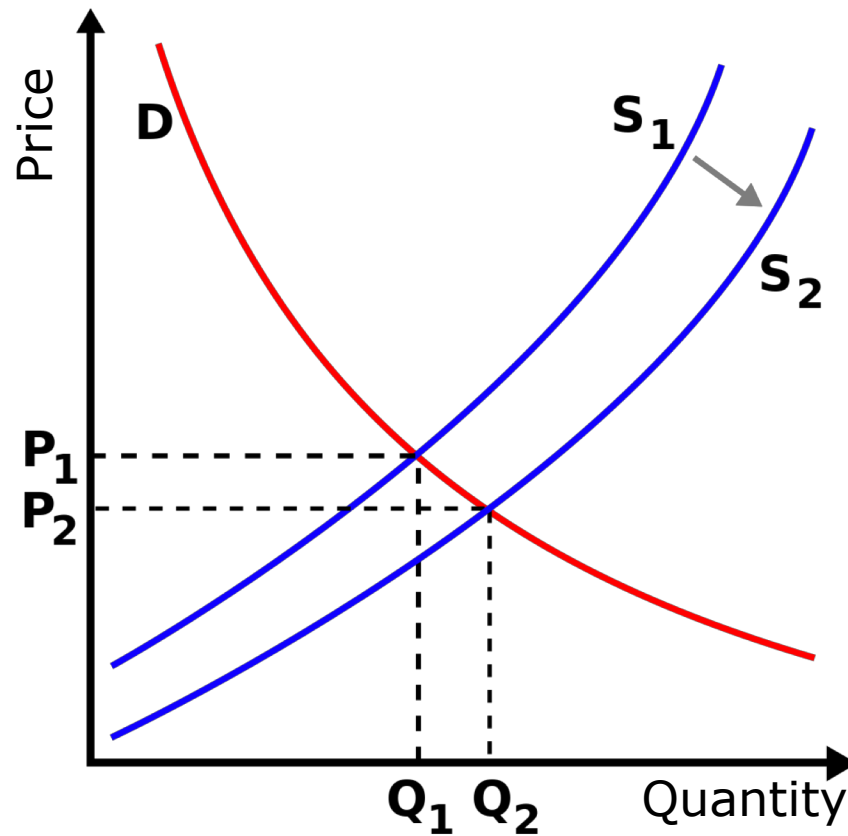
Supply - Demand Curve



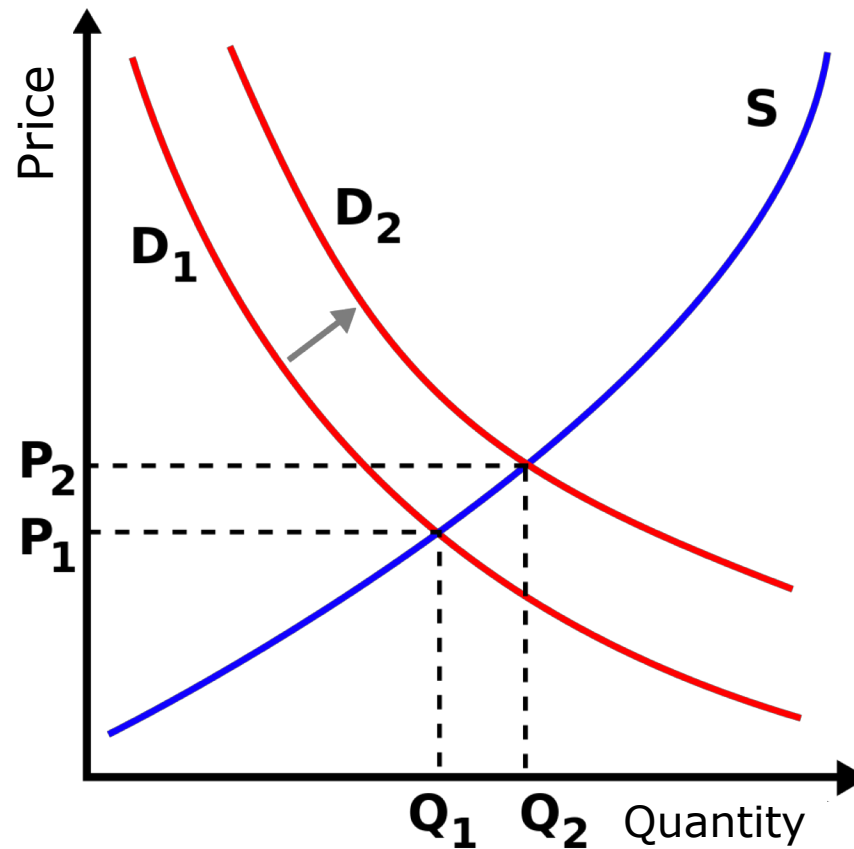
Demand is the quantity of a product that buyers are willing to purchase at various prices.

Supply is the quantity of a product that sellers are willing to sell at various prices.

Supply - Demand Curve: Supply shifts



Supply - Demand Curve: Demand shifts



Demand curve and pricing

- Note: not all demand curves are downward trends!
- **Prestigious product or services** have upward trends

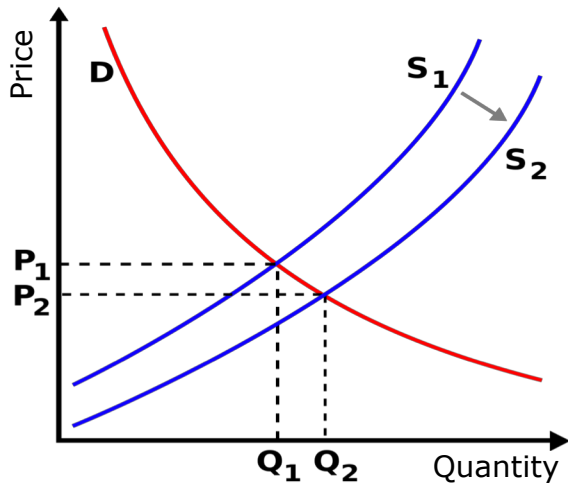
Price elasticity of demand:

- How changes in price affect quantity demanded

$$\textit{Price Elasticity} = \frac{\textit{Pct. Change in Quantity}}{\textit{Pct. Change in Price}}$$

Price elasticity of demand

- Example



$$P_1 = \$10$$

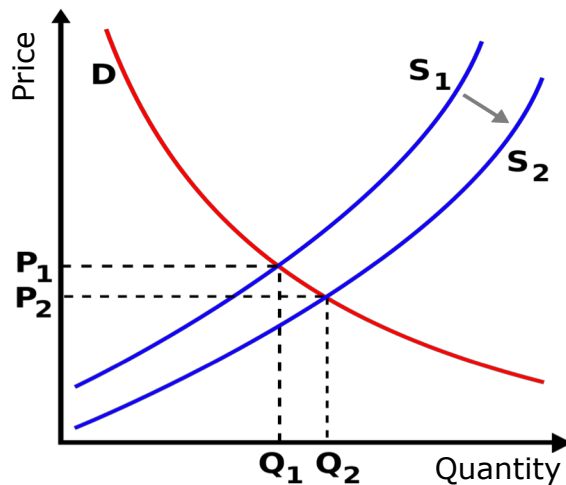
$$P_2 = \$5$$

$$Q_1 = 0.5M$$

$$Q_2 = 0.75M$$

Price elasticity of demand

- Example



$$P_1 = \$10 \quad P_2 = \$5$$

$$Q_1 = 0.5M \quad Q_2 = 0.75M$$

- **Pct. change Q** = $\frac{Q_2 - Q_1}{Q_1} * 100 = \frac{0.75 - 0.5}{0.5} * 100 = 50\%$
- **Pct. change P** = $\frac{P_2 - P_1}{P_1} * 100 = \frac{5 - 10}{10} * 100 = -50\%$
- **Elasticity** = $\frac{\text{Pct. Change in Quantity}}{\text{Pct. Change in Price}} = -1$

Price elasticity of demand

- **Elasticity** = -1
 - 1% **decrease** in price results in an **increase** of 1% in quantity demanded

Price elasticity of demand

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- **Elastic market** → **price sensitive**
 - Small change in price, large change in demand
- **Inelastic market** → **price insensitive**
 - Changes in prices have small or no effect on demand

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In which markets is it better to raise prices?

Elastic Demand



Inelastic Demand



Customers are generally less sensitive to primary products (**necessities**)

Factors influencing price elasticity

- Income effect



Factors influencing price elasticity

- Income effect



Factors influencing price elasticity

- Income effect



Factors influencing price elasticity

- **Substitution effect**
 - The greater the availability of substitutes of a product, the higher the price elasticity



To make effective price decisions firms must take into account costs

- **Variable costs**
 - Vary with production volume
- **Fixed costs**
 - Unaffected by production volume
- **Total costs**
 - Sum of variable and fixed costs

Example: Identify hotel's variable and fixed costs

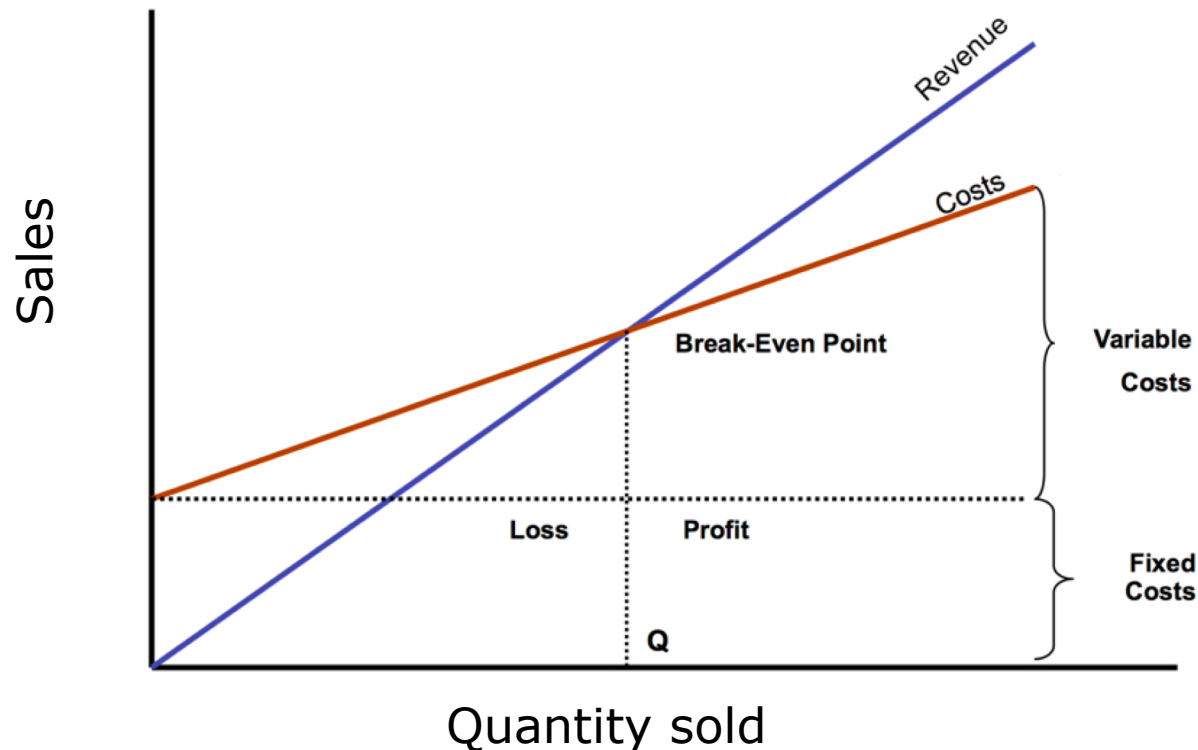
Example: Identify hotel's variable and fixed costs

<http://setupmyhotel.com/train-my-hotel-staff/front-office-training/187-fixed-cost-and-variable-cost-in-hotels.html>

Break-even analysis

Break-even point: # of units to sell in order to cover the total costs

- At this point profit is zero!



Break-even analysis

- Computing break even point
Revenue = Total costs

Break-even analysis

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$P \times Q = \text{fixed costs} + \text{variable costs}$

Break-even analysis

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$P \times Q = \text{fixed costs} + \text{variable costs per unit} \times Q$

Break-even analysis

- Computing break even point

Revenue = Total costs

$P \times Q = \text{fixed costs} + \text{variable costs}$

$P \times Q = \text{fixed costs} + \text{variable costs per unit} \times Q$

- We want to find Q (**break-even units**):

$$Q = \frac{\text{Fixed costs}}{P - \text{variable cost per unit}}$$

Contribution per unit

Break-even analysis

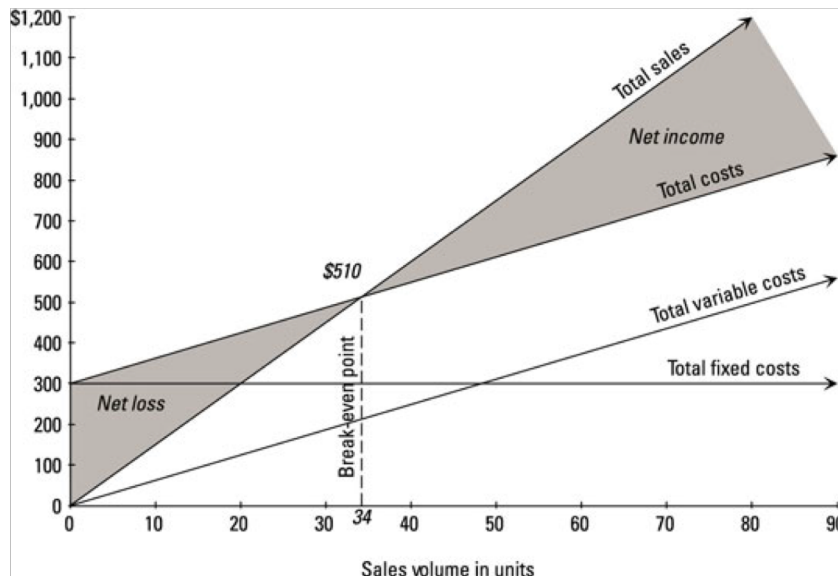
Example 1:

- Suppose that a company sells its products for \$15 each, with variable costs of \$6 per unit and total fixed costs of \$300

Break-even analysis

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$$Q = \frac{\$300}{(\$15 - \$6)} = 33.3$$

Break-even analysis

Example 2:

- Fixed cost = \$100,000
- Variable cost per unit = \$10
- Price per unit (P) = \$50

Break-even analysis

Example 2:

- Fixed cost = \$100,000
- Variable cost per unit = \$10
- Price per unit (P) = \$50

$$Q = \frac{\$100,000}{\$50 - \$10} = 2,500$$

Break-even analysis

Computing # of units for **target profit**

- Example 3:
 - Fixed cost = \$100,000
 - Variable cost per unit = \$10
 - Price per unit (P) = \$50
 - **Firm wants a target profit of \$50,000**

Break-even analysis

Computing # of units for **target profit**

- Example 3:
 - Fixed cost= \$100,000
 - Variable cost per unit = \$10
 - Price per unit (P) = \$50
 - **Firm wants a target profit of \$50,000**

$$Q = \frac{\$100,000 + \$50,000}{\$50 - \$10} = 3,750$$

Break-even analysis

Computing profit (more generally):

$$\begin{aligned}\text{Profit} &= P \times Q - (\text{fixed costs} + \text{variable costs per units} \times Q) \\ &= \text{Contributions per unit} \times Q - \text{fixed costs}\end{aligned}$$

P = Price per unit, Q = Quantity sold

Profit and loss statement (P&L)

One of the financial statements of a company and shows the company's revenues and expenses during a particular period

- INCOME STATEMENT GREENHARBOR LLC - For the year ended DECEMBER 31 2010		
	Debit	Credit
Revenues		
GROSS REVENUES (including INTEREST income)		296,397

Expenses:		
ADVERTISING	6,300	
BANK & CREDIT CARD FEES	144	
BOOKKEEPING	2,350	
SUBCONTRACTORS	88,000	
ENTERTAINMENT	5,550	
INSURANCE	750	
LEGAL & PROFESSIONAL SERVICES	1,575	
LICENSES	632	
PRINTING, POSTAGE & STATIONERY	320	
RENT	13,000	
MATERIALS	74,400	
TELEPHONE	1,000	
UTILITIES	1,491	

TOTAL EXPENSES		(195,512)

NET INCOME		100,885

Profit and loss statement (P&L)

Operating Revenue	
Product sales	\$12,000
Service sales	\$3,000
Total Operating Revenue	\$15,000
Operating Expenses	
Cost of goods sold	\$7,000
Gross Profit	\$8,000
Overhead	
Rent	\$1,500
Insurance	\$250
Office supplies	\$150
Utilities	\$100
Total Overhead	\$2,000
Operating Income	\$6,000
Other Income (Expenses)	
Loan interest	(\$500)
Earnings Before Income Taxes	\$5,500
Income Taxes	\$500
Net Earnings	\$5,000

Prices are affected by the presence and capabilities of competitors

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– Pure or Perfect Competition

- Large number of firms
- Homogeneous products
- Easy entry/exit
- No market power (price taker)
 - Firms accept the prevailing prices



Prices are affected by the presence and capabilities of competitors

– Monopoly

- One firm in the market (e.g., city, regional area, and doesn't necessarily have to be an entire country)
- Unique product
- Blocked entry (e.g., limited by government)
- Significant market power



Prices are affected by the presence and capabilities of competitors

– **Oligopoly**

- Few large firms supply a sizable portion of products in the market
- Homogenous or differentiated products
- Significant barriers to entry (costly)
- The market power of a firm depends on the actions of the other firms in the industry



Prices are affected by the presence and capabilities of competitors

– Monopolistic (imperfect) competition

- Large number of firms
- Differentiated products—products that differ slightly but serve similar purposes→ products are not perfect substitutes
- Low barrier to entry
- Some degree of market power



4. Competition

	Less price competition	More price competition
Fewer firms	Monopoly	Oligopoly
More firms	Monopolistic competition	Pure competition

Manufacturers, wholesalers, retailers

- They can have different perspectives on pricing strategies
- Example: Manufacturer and retailer
 - They agree on a min price to sell TVs but the retailer has too many and in order to move them, he sells them at a non-authorized price!



Price is affected by many factors

- The **company objective** of the firm: Profit? Sales?
- Which **customers** the firm is targeting?
- Firm **costs**: variables and fixed
- **Competitions**: is there someone else selling a similar product to mine?
- **Channel members** (manufacturers, wholesalers, retailers)

- List the 5 C's of pricing