



CHAPTER

# 8

## Profit Maximization and Competitive Supply

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Chapter 8: Profit Maximization and Competitive Supply

### CHAPTER 8 OUTLINE

- 8.1 Perfectly Competitive Markets
- 8.2 Profit Maximization
- 8.3 Marginal Revenue, Marginal Cost, and Profit Maximization
- 8.4 Choosing Output in the Short Run
- 8.5 The Competitive Firm's Short-Run Supply Curve
- 8.6 The Short-Run Market Supply Curve
- 8.7 Choosing Output in the Long Run
- 8.8 The Industry's Long-Run Supply Curve

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Chapter 8: Profit Maximization and Competitive Supply

### 8.1 PERFECTLY COMPETITIVE MARKETS



The model of perfect competition rests on three basic assumptions:

- (1) price taking,
- (2) product homogeneity, and
- (3) free entry and exit.

**Price Taking**  
Because each individual firm sells a sufficiently small proportion of total market output, its decisions have no impact on market price.

- **price taker** Firm that has no influence over market price and thus takes the price as given.

**Product Homogeneity**  
When the products of all of the firms in a market are perfectly substitutable with one another—that is, when they are homogeneous—no firm can raise the price of its product above the price of other firms without losing most or all of its business.

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## 8.1 PERFECTLY COMPETITIVE MARKETS



### Free Entry and Exit

- **free entry (or exit)** Condition under which there are no special costs that make it difficult for a firm to enter (or exit) an industry.

### When Is a Market Highly Competitive?

Because firms can implicitly or explicitly collude in setting prices, the presence of many firms is not sufficient for an industry to approximate perfect competition.

Conversely, the presence of only a few firms in a market does not rule out competitive behavior.

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## 8.2 PROFIT MAXIMIZATION



### Do Firms Maximize Profit?

The assumption of *profit maximization* is frequently used in microeconomics because it predicts business behavior reasonably accurately and avoids unnecessary analytical complications.

For smaller firms managed by their owners, profit is likely to dominate almost all decisions.

In larger firms, however, managers who make day-to-day decisions usually have little contact with the owners (i.e. the stockholders).

In any case, firms that do not come close to maximizing profit are not likely to survive.

Firms that do survive in competitive industries make long-run profit maximization one of their highest priorities.

### Alternative Forms of Organization

- **cooperative** Association of businesses or people jointly owned and operated by members for mutual benefit.

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## 8.2 PROFIT MAXIMIZATION



### EXAMPLE 8.1 Condominiums versus Cooperatives in New York City

Nationwide, condos are a far more common than co-ops, outnumbering them by a factor of nearly 10 to 1. In this regard, New York City is very different from the rest of the nation—co-ops are more popular, and outnumber condos by a factor of about 4 to 1.

What accounts for the relative popularity of housing cooperatives in New York City? Part of the answer is historical. Housing cooperatives are a much older form of organization in the U.S.

The building restrictions in New York have long disappeared, and yet the conversion of apartments from co-ops to condos has been relatively slow.

The typical condominium apartment is worth about 15.5 percent more than an equivalent apartment held in the form of a co-op.

It appears that in New York, many owners have been willing to forgo substantial amounts of money in order to achieve non-monetary benefits.

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