ECONOMICS 201: WEEK 1 SUPPLY AND DEMAND

MICRO VIEW OF THE ECONOMY

Economy is composed of a collection of markets.

Types of Markets

- Product Markets
- Labor Markets
- Capital Markets

COMPETITION IN MARKETS

Perfectly competitive market

- No buyer or seller has the power to influence price.
- Supply and demand model

Imperfectly competitive market

• Buyers or sellers have power to influence price.

COMPETITION IN THE REAL WORLD

Perfect competition

Rare

Supply and demand model

- Versatile and widely used model
- Most markets have characteristics that prevent markets from behaving exactly as predicted.

DEMAND

Buyers determine demand.

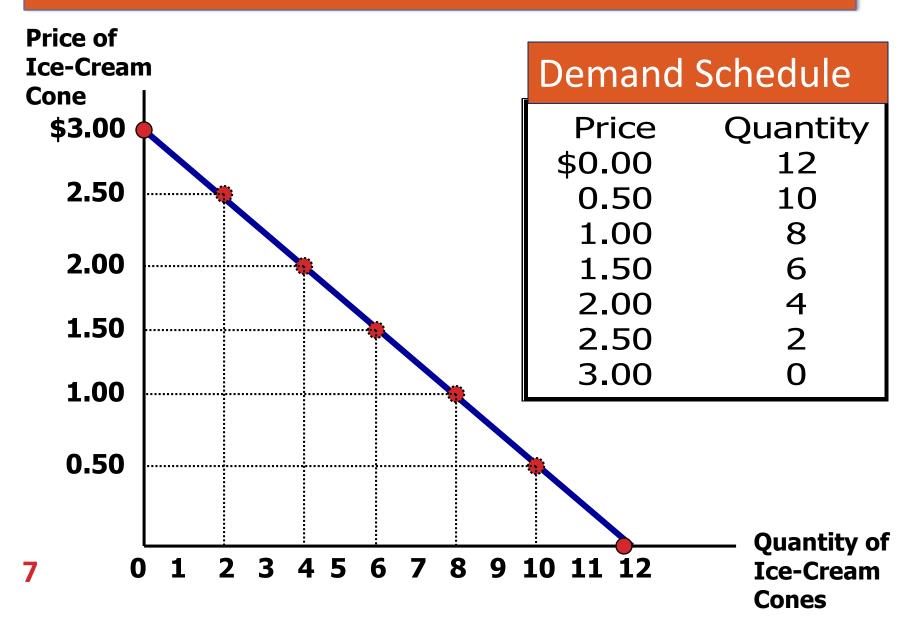
Demand schedule

- <u>Quantities</u> of a good that consumers would choose to purchase at different <u>prices</u>.
- At a certain period of time.
- ceteris paribus

DEMAND SCHEDULE

Price	Quantity
\$0.00	12
0.50	10
1.00	8
1.50	6
2.00	4
2.50	2
3.00	0

DEMAND CURVE



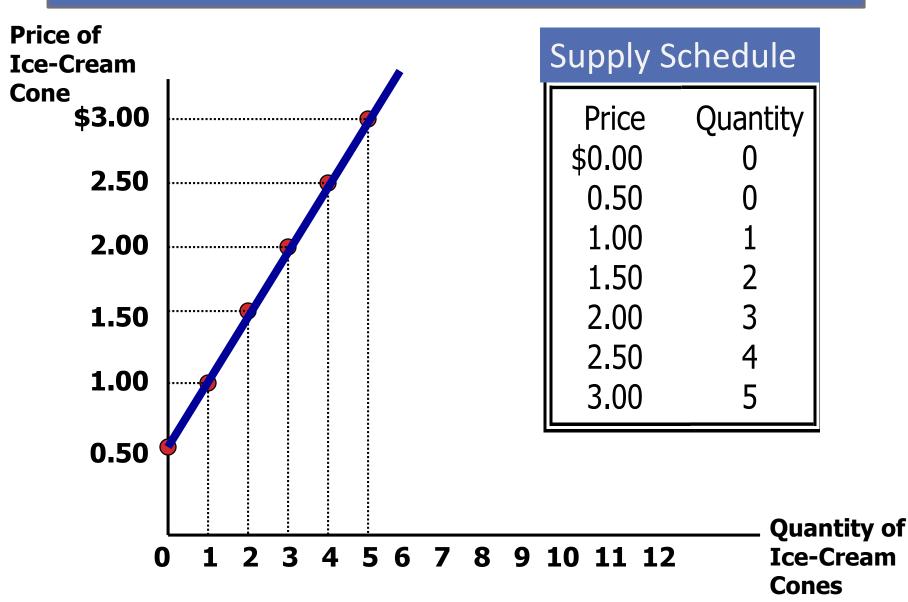
SUPPLY

Sellers determine supply.

Supply schedule

- <u>Quantities</u> of a good that firms would be willing to offer for sale at different <u>prices</u>.
- At a certain period of time.
- ceteris paribus

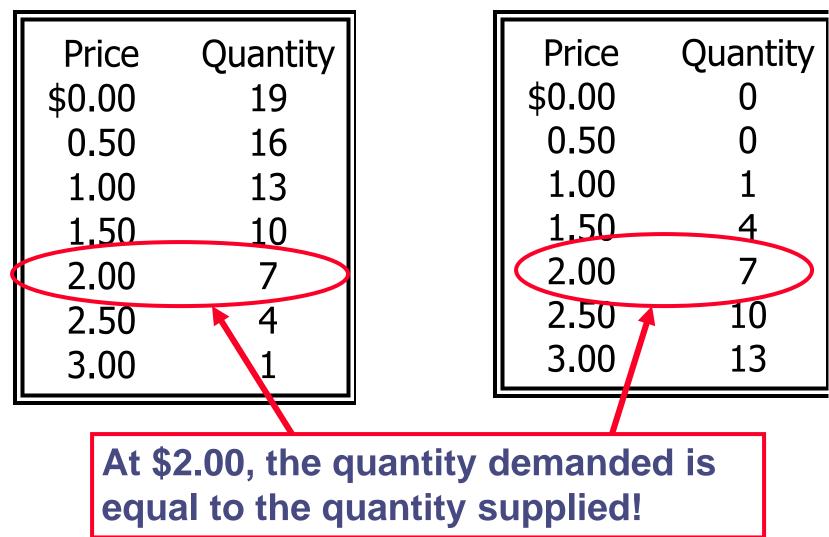
SUPPLY CURVE

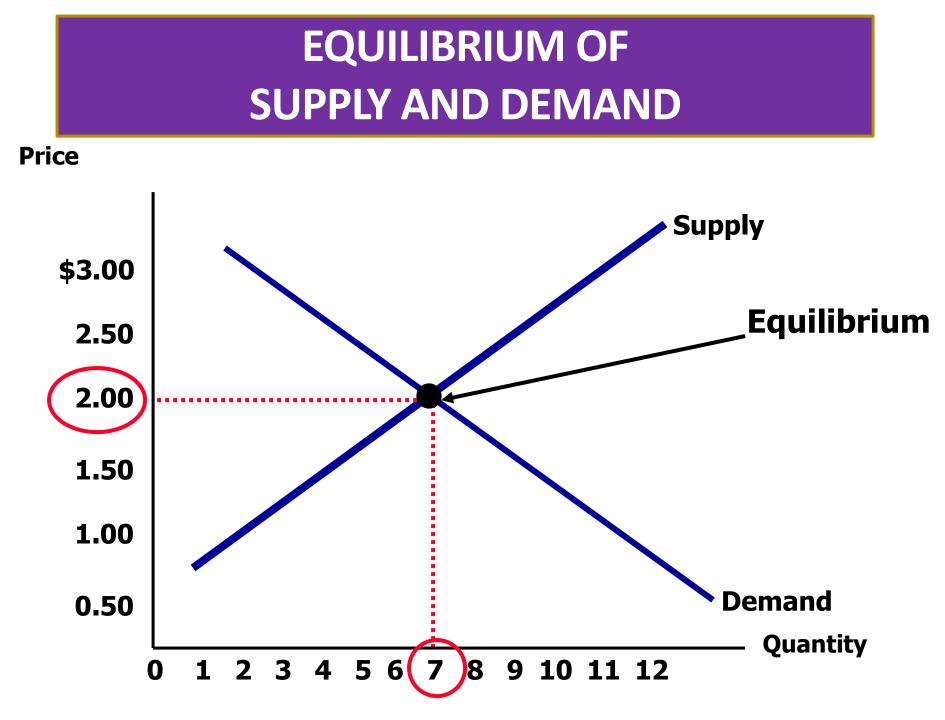


SUPPLY AND DEMAND TOGETHER

Demand Schedule

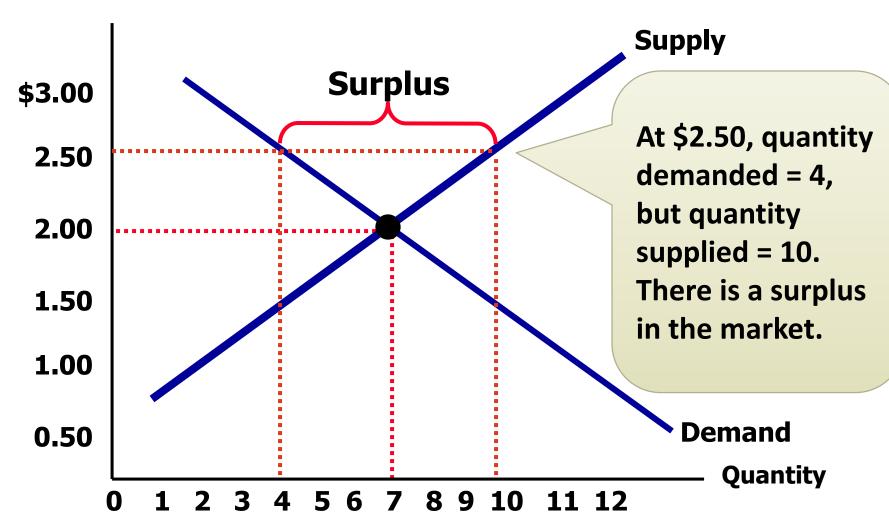
Supply Schedule



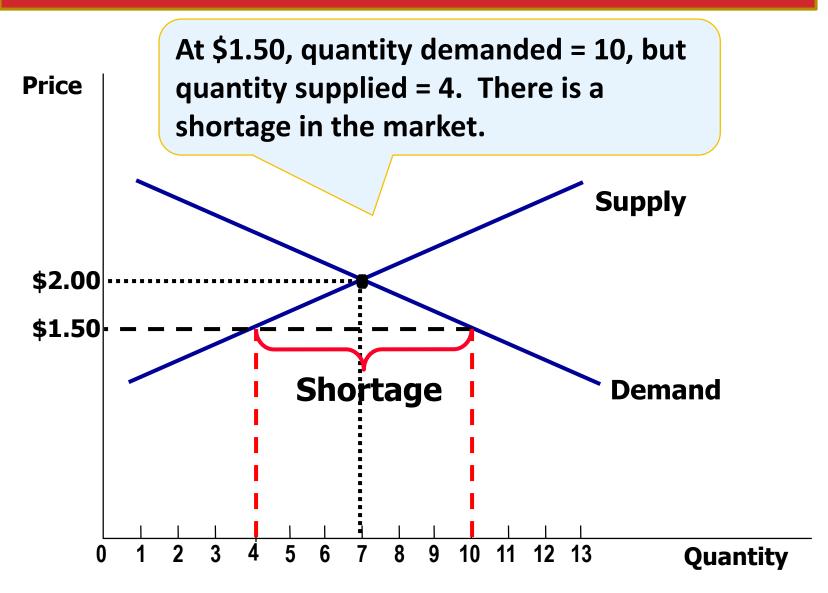


EXCESS SUPPLY

Price



EXCESS DEMAND



EQUILIBRIUM & DISEQUILIBRIUM

Equilibrium

- Means market has no tendency to change.
 - Quantity demanded = Quantity supplied
 - No shortage or surplus.

Disequilibrium

- Means market is <u>not</u> at rest.
 - Tendency for market forces to adjust until new equilibrium is reached.

DISEQUILIBRIUM

Caused by:

- Changes in Demand.
 - New Demand Schedule
 - Shift in Demand Curve
- Changes in Supply.
 - New Supply Schedule.
 - Shift in Supply Curve

- 1. Consumer Income
- 2. Consumer Wealth
- 3. Prices of related goods
- **4**. Expected price or expected income.
- 5. Changing Tastes
- 6. Other variables

1. Consumer Income

The amount that an individual earns over a particular period

Normal good

A good that people demand more of as their income rises

Inferior good

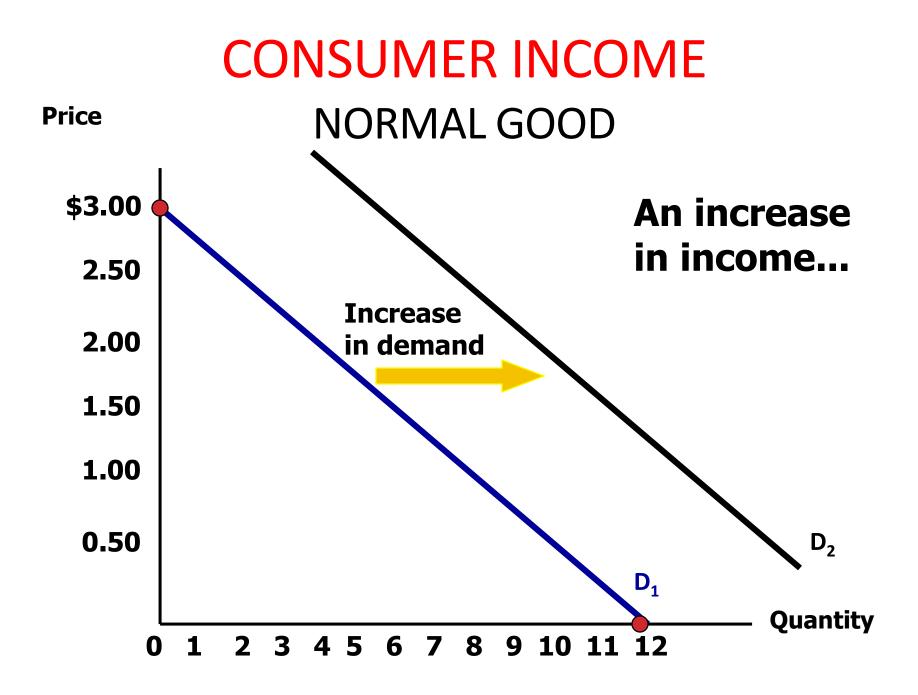
A good that people demand less of as their income rises

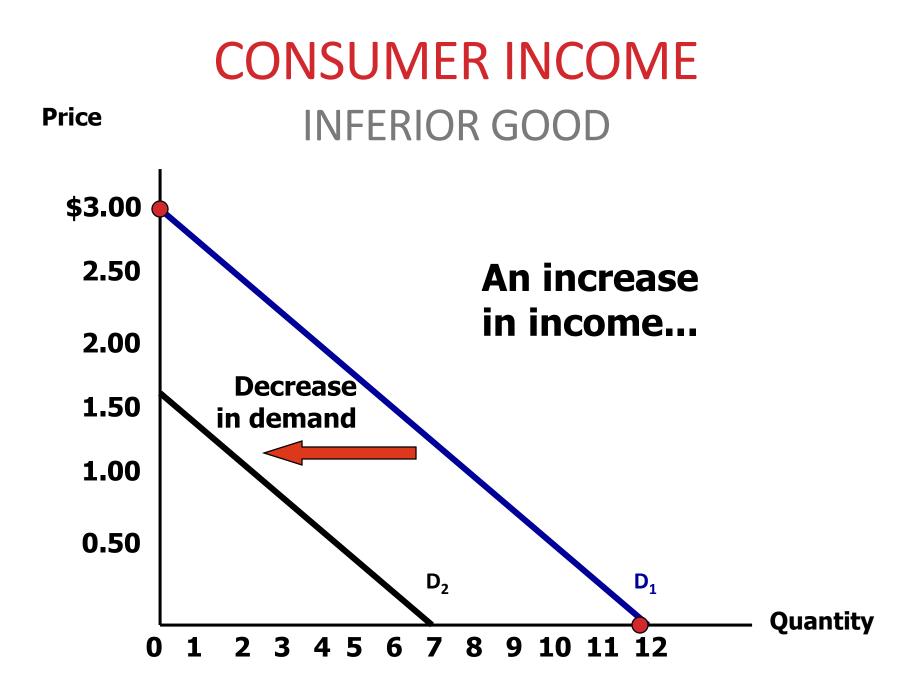
EXAMPLES OF NORMAL AND INFERIOR GOODS

- If your income increases you might buy more:
 - Organic chicken
 - A new car

If your income increases you might buy less:

- Top Ramen
- Clothing from Wal-Mart





2. Consumer Wealth

= Net Worth = Assets – Liabilities (debts)

Increase in wealth

- Increases demand for a normal good
- Decreases demand for an inferior good

3. Prices of related goods

Substitutes

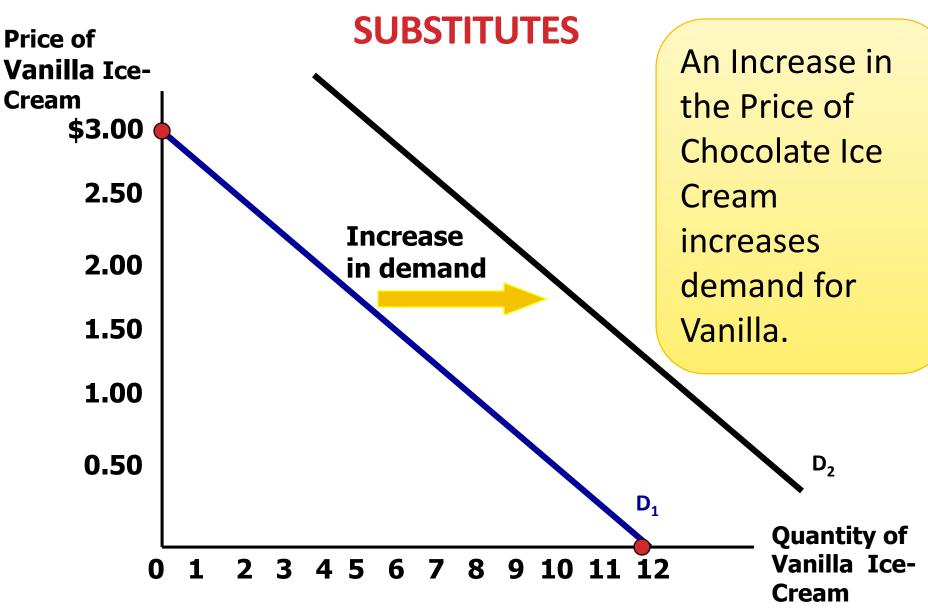
- A good that is used in place of some other good
- An increase in the price of a good will tend to <u>increase</u> the demand for a substitute good.
 - Examples of substitutes: Coffee or tea, Hamburger or pizza

3. Prices of related goods

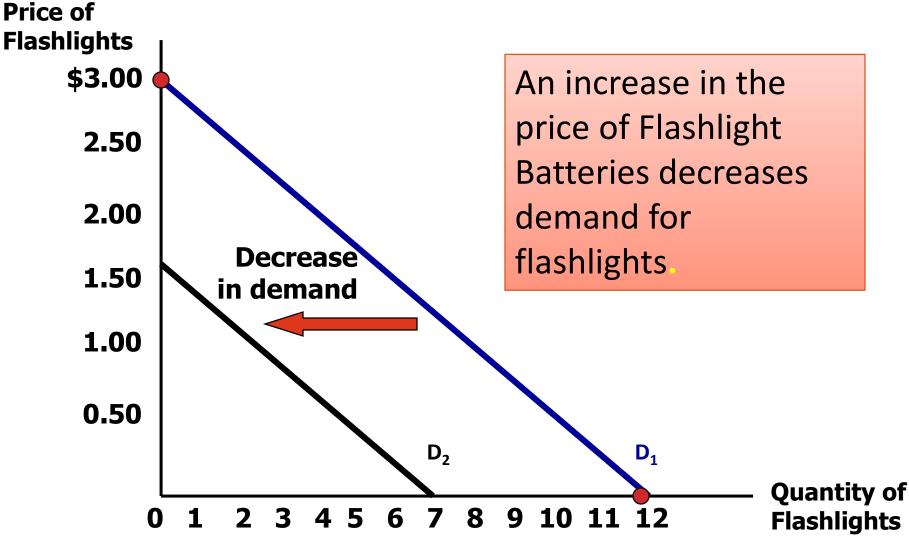
Complements

- A good that is used together with some other good
- An increase in the price of a good will tend to <u>lower</u> the demand for a complement.
- Examples of complements: batteries and toys, gasoline and big cars.

PRICES OF OTHER GOODS



PRICES OF OTHER GOODS COMPLEMENTS

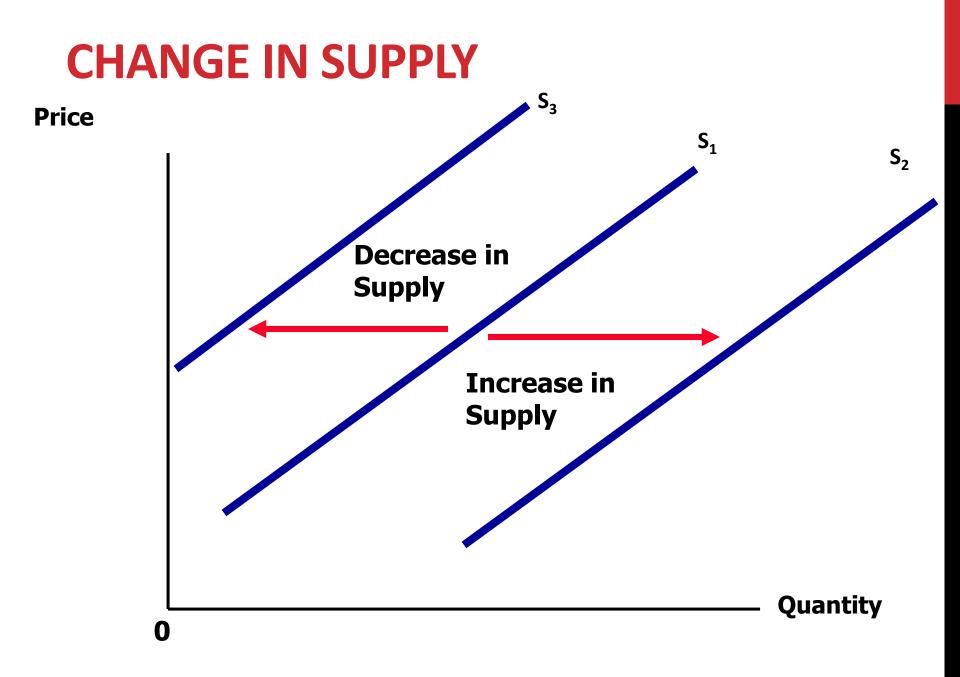


4. Expectations

- Price will rise in the future?
 - Increases <u>current</u> demand.
- Price will fall in the future?
 - Decreases <u>current</u> demand.

4. Expectations

- Income will rise in the future?
 - Increases <u>current</u> demand.
- Income will fall in the future?
 - Decreases <u>current</u> demand.



FACTORS THAT SHIFT THE SUPPLY CURVE

- 1. Input prices
- 2. Technology
- 3. Expected price
- 4. Changes in weather or other natural events

FACTORS THAT SHIFT THE SUPPLY CURVE

1. Input prices

- A fall in the price of an input will increase supply.
 - Price of cheese falls, cheese pizza costs less to produce. So firm will produce more at a given price.
- An increase in the price of an input will decrease supply

FACTORS THAT SHIFT THE SUPPLY CURVE

2. Technological advance in production

- A firm can produce a given level of output in a new and cheaper way than before
- Decreases costs of production, so firm will supply more at a given price.

FACTORS THAT SHIFT THE SUPPLY CURVE

3. Expected price

- An expectation of a future price rise will reduce current supply.
 - Firm will wait to supply more when the price is higher.
- An expectation of a future price drop will increase current supply.

FACTORS THAT SHIFT THE SUPPLY CURVE

4. Changes in weather and other natural events

- Favorable weather increases crop yields
- Unfavorable weather destroys crops
- Natural disasters destroy or disrupt productive capacity

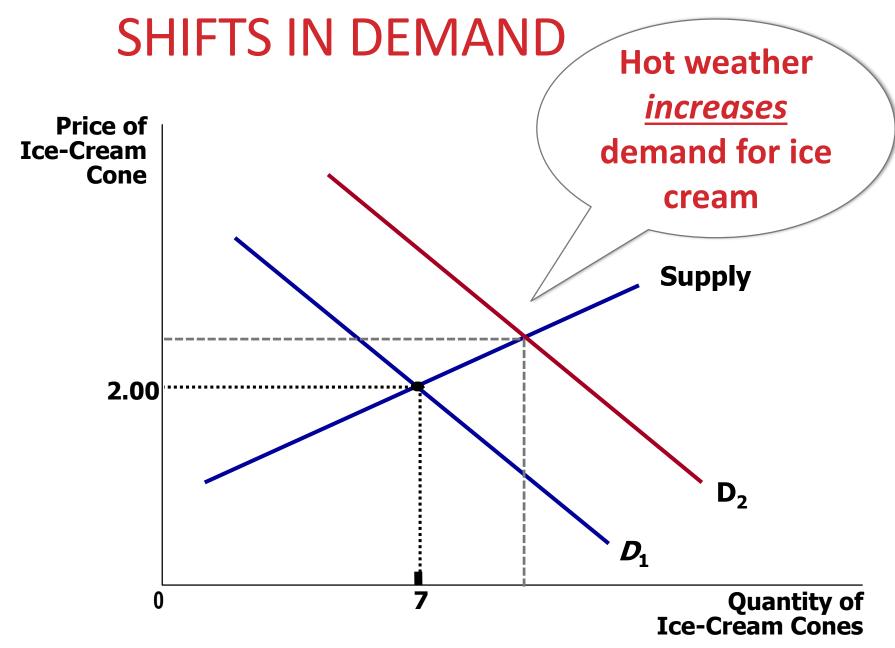
SUPPLY

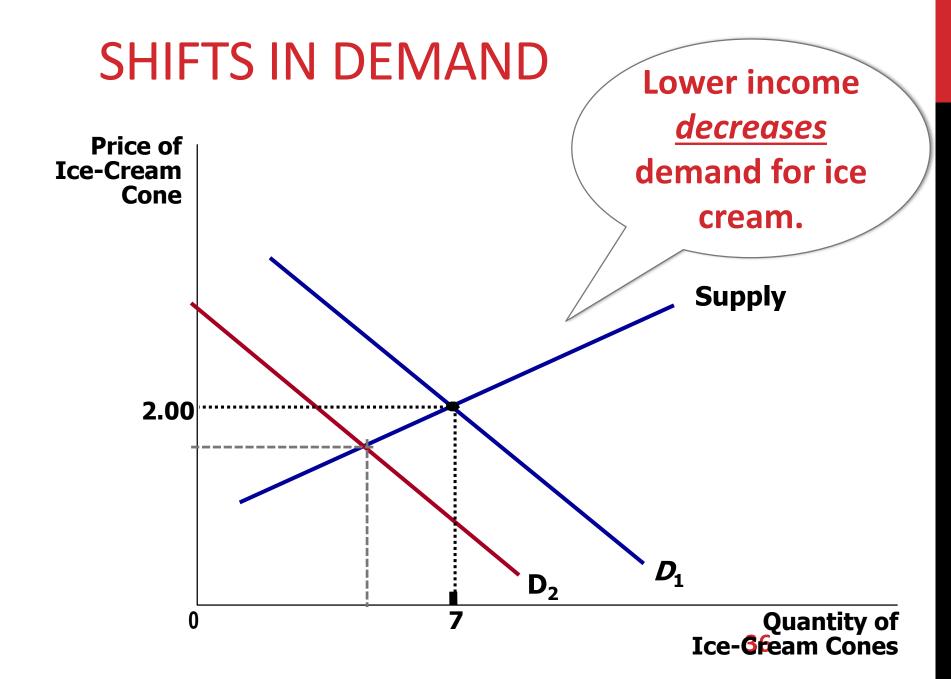
Basically, anything that affects profits will affect supply.

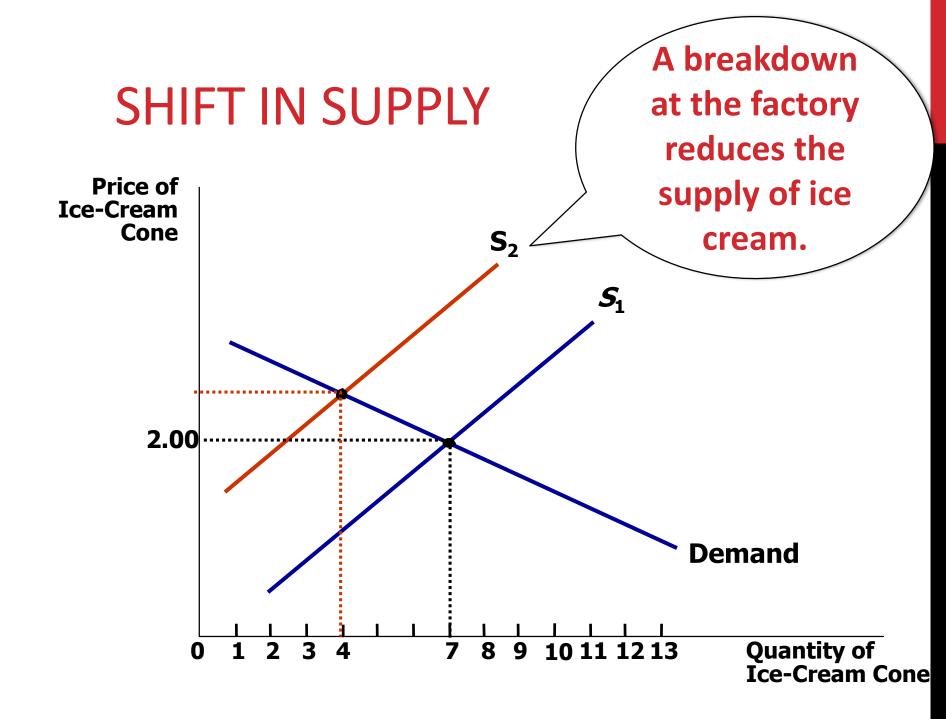
Profits = Revenues - Costs

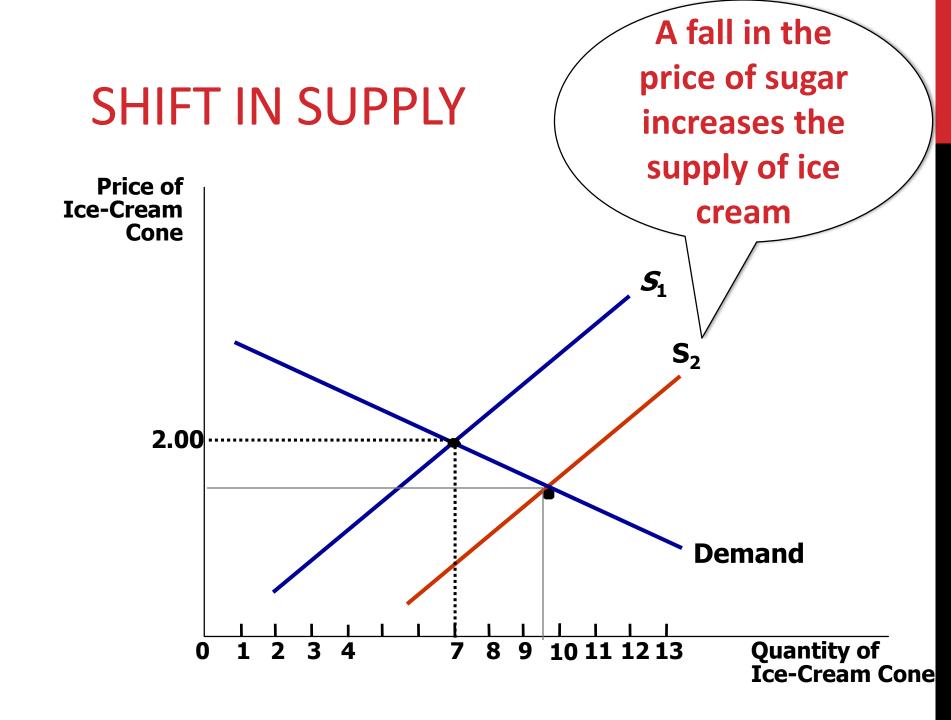
- Revenues = Sales
- Costs:
 - "inputs" raw materials, labor, capital, rent, insurance, etc.

Higher profits = greater supply.









SHIFTS IN BOTH DEMAND & SUPPLY?

- Not as clear cut. Forces are operating in opposite directions.
- Example: S û and D ↓
 - •Sî means P^e î and Q^e \mathbb{J}
 - D \square means P^e \square and Q^e \square
 - Result: Quantity will fall, but price???
- P^e ⁼ Equilibrium Price
- Q^{e =} Equilibrium Quantity

SHIFTS IN BOTH DEMAND & SUPPLY?

- Second Example: S企 and D企
 - •S û means P^e û and Q^e ↓

 - •Price will rise, but quantity???