3



Demand and Supply



After studying this chapter, you will be able to

- Describe a competitive market and think about price as an opportunity cost
- Explain the influences on demand
- Explain the influences on supply
- Explain how demand and supply determine prices and quantities bought and sold
- Use the demand and supply model to make predictions about changes in prices and quantities

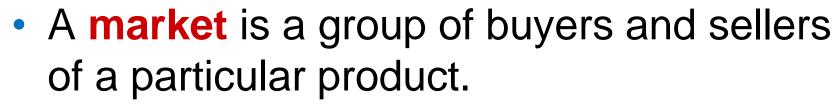
 What makes the prices of oil and gasoline double in just one year?



 Some prices rocket, some slide, and some roller coaster.

 This chapter explains how markets determine prices and why prices change.

Markets and Competition





- A competitive market is one with many buyers and sellers, each has a negligible effect on price.
- In a perfectly competitive market:
 - All goods exactly the same
 - Buyers & sellers so numerous that no one can affect market price – each is a "price taker"
- In this chapter, we assume markets are perfectly competitivenited



- If you demand something, then you
- 1. Want it,
- 2. Can afford it, and
- 3. Have made a definite plan to buy it.
- Wants are the unlimited desires or wishes people have for goods and services. Demand reflects a decision about which wants to satisfy.
- The quantity demanded of a good or service is the amount that consumers plan to buy during a particular time period, and at a



- Preferences
 your wants and their intensities
- Demand consumers' willingness and ability to pay for particular product/service



- Demand Curve and Demand Schedule
 - The term demand refers to the entire relationship between the price of the good and quantity demanded of the good.
 - A demand curve shows the relationship between the quantity demanded of a good and its price when all other influences on consumers' planned purchases remain the same.

WHAT CAN CHANGE DEMAND?





Quantity demanded is changed only by a change in price.

Demand is changed by all other influences on consumer choice.

The Demand Schedule

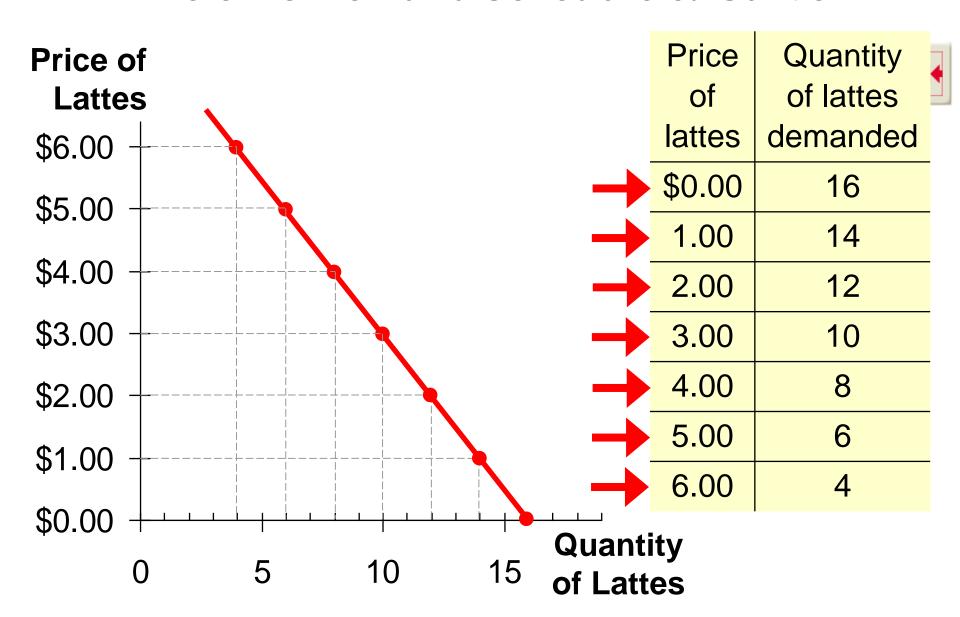
Demand schedule:

 a table that shows the relationship between the price of a good and the quantity demanded

- Example: Helen's demand for
- Partice that Helen's preferences obey the Law of Demand.

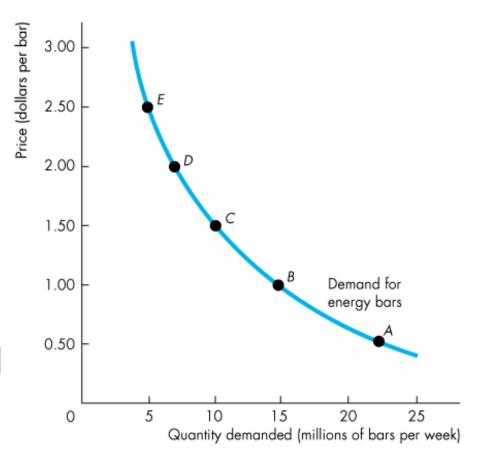
-
Quantity
of lattes
demanded
16
14
12
10
8
6
4

Helen's Demand Schedule & Curve





- Figure 3.1 shows a demand curve for energy bars.
- A rise in the price, other things remaining the same, brings a decrease in the quantity demanded and a movement along the demand curve.





- The Law of Demand
 - The law of demand states:
 - Other things remaining the same, the higher the price of a good, the smaller is the quantity demanded; and
 - the lower the price of a good, the larger is the quantity demanded.
 - The law of demand results from
 - Substitution effect
 - Income effect



Substitution effect

 When the relative price (opportunity cost) of a good or service rises, people seek substitutes for it, so the quantity demanded of the good or service decreases.

Income effect

 When the price of a good or service rises relative to income, people cannot afford all the things they previously bought, so the quantity demanded of the good or service decreases.



Market demand

sum of demands of all individuals willing and able to buy a particular product/service

Law of demand

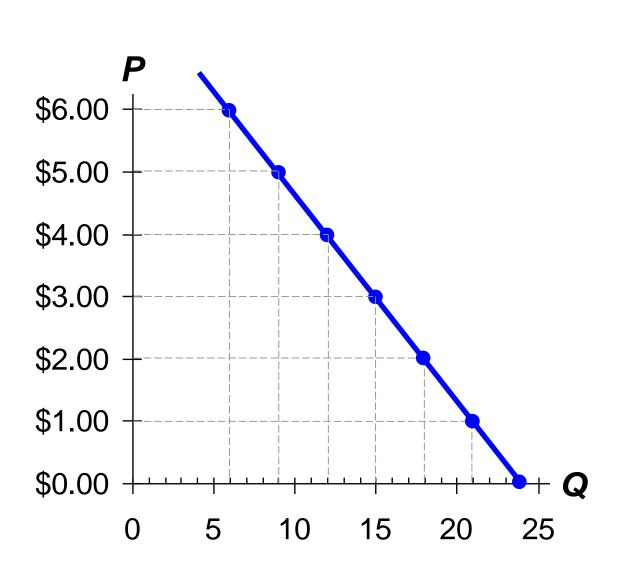
if the price of a product/service rises, quantity demanded decreases

Market Demand versus Individual Demand

- The quantity demanded in the market is the sum of the quantities demanded by all buyers at each price.
- Suppose Helen and Ken are the only two buyers in the Latte market. (Q^d = quantity demanded)

Price	Helen's Q ^d		Ken's Q ^d		Market Q ^d
\$0.00	16	+	8	=	24
1.00	14	+	7	=	21
2.00	12	+	6	=	18
3.00	10	+	5	=	15
4.00	8	+	4	=	12
5.00	6	+	3	=	9
6.00	4	+	2	=	6

The Market Demand Curve for Lattes



P	Q^d	
•	(Market)	
\$0.00	24	
1.00	21	
2.00	18	
3.00	15	
4.00	12	
5.00	9	
6.00	6	



- A Change in Demand
 - When some influence on buying plans other than the price of the good changes, there is a change in demand for that good.
 - The quantity of the good that people plan to buy changes at each and every price, so there is a new demand curve.
 - When demand *increases*, the demand curve shifts *rightward*.
 - When demand decreases, the demand curve shifts *leftward*.



- Six main factors that change demand are
- The prices of related goods
- Expected future prices
- Income
- Expected future income and credit
- Population
- Preferences



- Prices of Related Goods
- A substitute is a good that can be used in place of another good.
- A complement is a good that is used in conjunction with another good.
- When the price of substitute for an energy bar rises or when the price of a complement of an energy bar falls, the demand for energy bars increases.



Expected Future Prices

 If the price of a good is expected to rise in the future, current demand for the good increases and the demand curve shifts rightward.

- Income

- When income increases, consumers buy more of *most* goods and the demand curve shifts rightward.
- A normal good is one for which demand increases as income increases.
- An inferior good is a good for which demand



- Expected Future Income and Credit
- When income is expected to increase in the future or when credit is easy to obtain, the demand might increase now.

Population

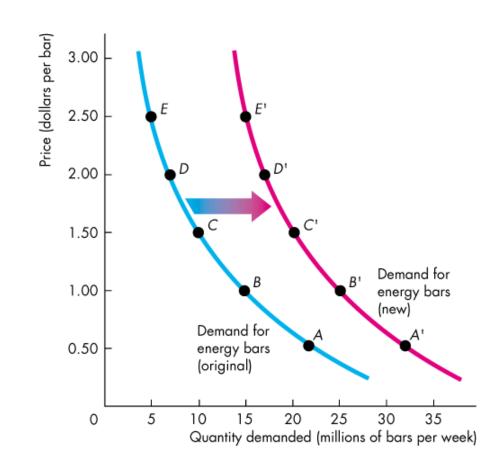
 The larger the population, the greater is the demand for all goods.

Preferences

 People with the same income have different demands if they have different preferences.

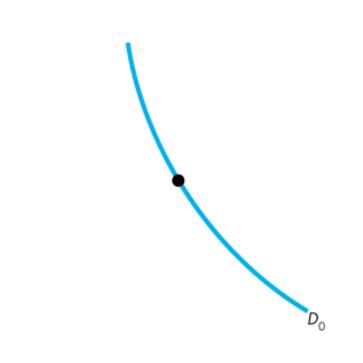


- Figure 3.2 shows an increase in demand.
- Because an energy bar is a normal good, an increase in income increases the demand for energy bars.



 A Change in the Quantity
 Demanded Versus a Change in Demand

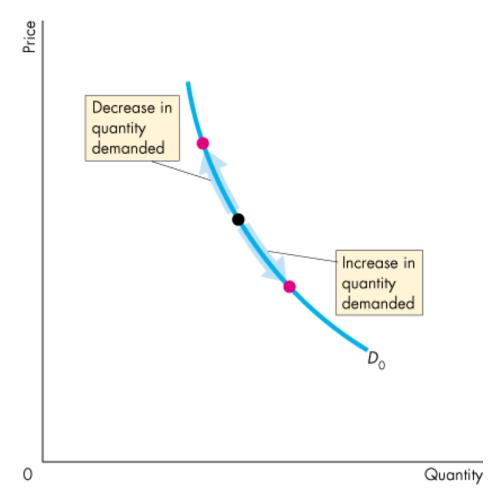
Figure 3.3
 illustrates the
 distinction between
 a change in
 demand and a
 change in the
 quantity demanded.



Quantity



- A Movement along the Demand Curve
- When the price of the good changes and everything else remains the same, the quantity demanded changes and there is a movement

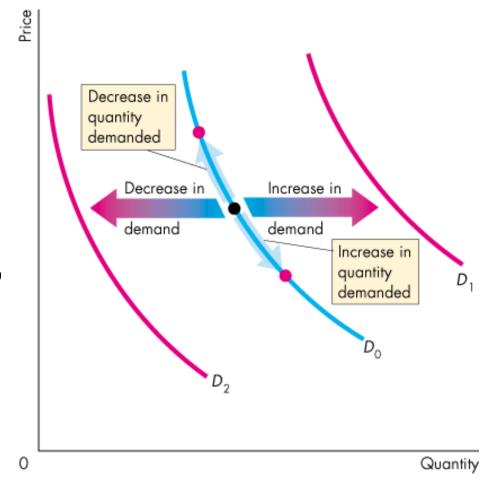


© 2010 Pearson along the demand



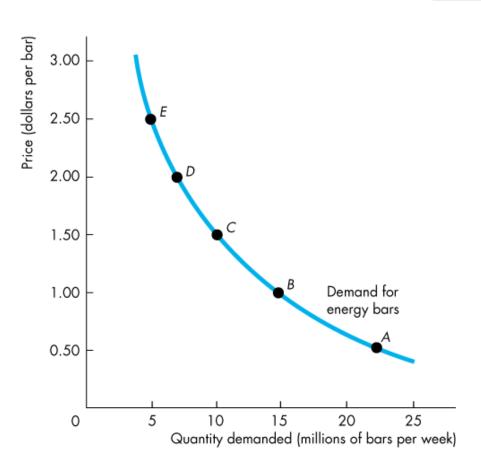
A Shift of the Demand Curve

-If the price remains the same but one of the other influences on buyers' plans changes, demand changes and the demand curve shifts.





- Willingness and Ability to Pay
- A demand curve is also a willingnessand-ability-to-pay curve.
- The smaller the quantity available, the higher is the price that someone is willing to pay for another unit.



Markets and Prices



- A market is any arrangement that enables buyers and sellers to get information and do business with each other.
- A competitive market is a market that has many buyers and many sellers so no single buyer or seller can influence the price.
- The money price of a good is the amount of money needed to buy it.
- The relative price of a good—the ratio of its money price to the money price of the next best alternative good—is its opportunity cost.