

Equilibrium Price and Equilibrium Quantity

Table 1-8.1 below shows the demand for Greebes and the supply of Greebes. Plot these data on the axes in Figure 1-8.1. Label the demand curve D and label the supply curve S. Then answer the questions that follow.

Student Alert: A “change in demand” or a “change in supply” results in a change in price, while a “change in quantity demanded” or a “change in quantity supplied” is the result of a change in price.



Table 1-8.1

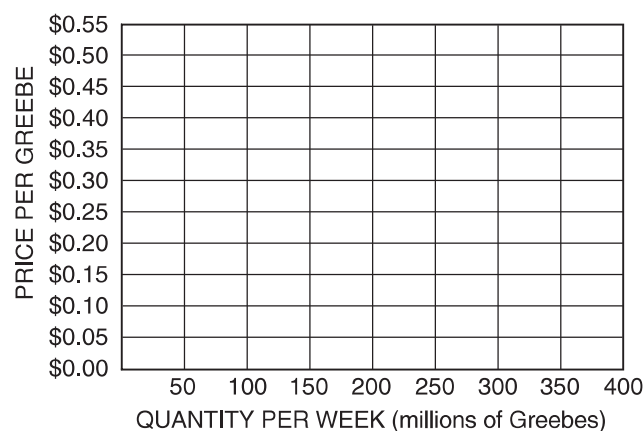
Demand for and Supply of Greebes

Price (per Greebe)	Quantity demanded (millions of Greebes)	Quantity supplied (millions of Greebes)
\$0.05	400	0
\$0.10	350	50
\$0.15	300	100
\$0.20	250	150
\$0.25	200	200
\$0.30	150	250
\$0.35	100	300
\$0.40	50	350
\$0.45	0	400



Figure 1-8.1

Demand for and Supply of Greebes



1. Under these conditions, competitive market forces would tend to establish an equilibrium price of _____ per Greebe and an equilibrium quantity of _____ million Greebes.

2. If the price currently prevailing in the market is \$0.30 per Greebe, buyers would want to buy _____ million Greebes and sellers would want to sell _____ million Greebes. Under these conditions, there would be a (*shortage / surplus*) of _____ million Greebes. Competitive market forces would cause the price to (*increase / decrease*) to a price of _____ per Greebe. At this new price, buyers would now want to buy _____ million Greebes, and sellers now want to sell _____ million Greebes. Because of this change in (*price / underlying conditions*), the (*demand / quantity demanded*) (*increased / decreased*) by _____ million Greebes, and the (*supply / quantity supplied*) (*increased / decreased*) by _____ million Greebes.

3. If the price currently prevailing in the market is \$0.20 per Greebe, buyers would want to buy _____ million Greebes, and sellers would want to sell _____ million Greebes. Under these conditions, there would be a (*shortage / surplus*) of _____ million Greebes. Competitive market forces would cause the price to (*increase / decrease*) to a price of _____ per Greebe. At this new price, buyers would now want to buy _____ million Greebes, and sellers now want to sell _____ million Greebes. Because of this change in (*price / underlying conditions*), the (*demand / quantity demanded*) (*increased / decreased*) by _____ million Greebes, and the (*supply / quantity supplied*) (*increased / decreased*) by _____ million Greebes.

4. At equilibrium, is each of the following true or false? Explain.
 - (A) The quantity demanded is equal to the quantity supplied.

 - (B) Demand equals supply.

5. Now, suppose a mysterious blight causes the supply schedule for Greebes to change as shown in Table 1-8.2:



Table 1-8.2

New Supply of Greebes

Price (per Greebe)	Quantity supplied (millions of Greebes)
\$0.15	0
\$0.20	50
\$0.25	100
\$0.30	150
\$0.35	200

Plot the new supply schedule on the axes in Figure 1-8.1 and label it S_1 . Label the new equilibrium E_1 . Under these conditions, competitive market forces would establish an equilibrium price of _____ per Greebe and an equilibrium quantity of _____ million Greebes.

Compared with the equilibrium price in Question 1, we say that because of this change in (*price / underlying conditions*), the (*supply / quantity supplied*) changed; and both the equilibrium price and the equilibrium quantity changed. The equilibrium price (*increased / decreased*), and the equilibrium quantity (*increased / decreased*).

Compared with the consumer and producer surpluses in Question 4, consumer surplus has (*increased / decreased*), and producer surplus has (*increased / decreased*).

6. Now, with the supply schedule at S_1 , suppose further that a sharp drop in people's incomes as the result of a prolonged recession causes the demand schedule to change as shown in Table 1-8.3:



Table 1-8.3

New Demand for Greebes

Price (per Greebe)	Quantity demanded (millions of Greebes)
\$0.15	200
\$0.20	150
\$0.25	100
\$0.30	50

Plot the new demand schedule on the axes in Figure 1-8.1 and label it D_1 . Label the new equilibrium E_2 . Under these conditions, with the supply schedule at S_1 , competitive market forces would establish an equilibrium price of _____ per Greebe and an equilibrium quantity of _____ million Greebes. Compared with the equilibrium price in Question 5, because of this change in (*price / underlying conditions*), the (*demand / quantity demanded*) changed. The equilibrium price (*increased / decreased*), and the equilibrium quantity (*increased / decreased*).