

# 2.1 Demand

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### Demand, Price & Quantity

# Introduction to Demand

- Demand is the amount of a good/service that a consumer is willing and able to purchase at a given price in a given time period
  - If a consumer is willing to purchase a good, but cannot afford to, it is not **effective demand**
- A demand curve is a graphical representation of the price and quantity demanded (QD) by consumers
  - If data were plotted, it would be an actual curve. Economists, however, use straight lines so as to make analysis easier
- The law of demand states that there is an inverse relationship between price and quantity demanded (QD), ceteris paribus
  - When the price rises the QD falls
  - When the price falls the QD rises

### Individual and Market Demand

- Market demand is the combination of all the individual demand for a good/service
  - It is calculated by adding up the individual demand at each price level

#### The Monthly Market Demand for Newspapers in a Small Village

Customer 1	Customer 2	Customer 3	Customer 4	Market Demand
30	15	4	4	53

• Individual and market demand can also be represented graphically



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**Your notes** 





### **Diagram Analysis**

- A shop sells both boys and girls swimwear
- In July, at a price of \$10, the demand for boys swimwear is 500 units and girls is 400 units
- At a price of \$10, the shops market demand during July is 900 units

# Assumptions Underlying the Law of Demand

- The law of demand is based on three key assumptions:
  - The income effect
  - The substitution effect
  - The law of diminishing marginal utility
- These three assumptions collectively contribute to the understanding of the law of demand and how consumers' behaviour is influenced by changes in price
  - The income effect and substitution effect highlight how changes in price affect consumers' purchasing power and their choices among different goods
  - The law of diminishing marginal utility explains why consumers are **less willing to pay higher prices** for additional units of a good

#### An Explanation of the Three Assumptions

Explanation

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The Income Effect	<ul> <li>The income effect refers to the change in a consumer's purchasing power resulting from a change in the price of a good/service</li> </ul>	Your notes
	<ul> <li>When the price of a good decreases, consumers' purchasing power increases as with the same income they can buy more of the good</li> </ul>	
	<ul> <li>When the price of a good increases, consumers' purchasing power decreases as with the same income they can afford to purchase less of the good</li> </ul>	
	<ul> <li>The income effect assumes that consumers will adjust their consumption patterns based on changes in their purchasing power caused by price fluctuations</li> </ul>	
The Substitution Effect	<ul> <li>The substitution effect suggests that consumers will substitute goods/services that have become relatively more expensive with those that have become relatively less expensive</li> </ul>	
	<ul> <li>When the price of a particular good rises, consumers may seek alternatives that provide similar utility or satisfaction at a lower cost</li> </ul>	
	<ul> <li>E.g. if the price of brand A coffee increases, consumers may switch to brand B coffee, assuming it provides a similar level of satisfaction but at a lower price</li> </ul>	
	<ul> <li>The substitution effect assumes that consumers are rational decision- makers who have perfect information and respond to changes in relative prices by adjusting their consumption</li> </ul>	
The Law of Diminishing Marginal Utility	<ul> <li>The Law of Diminishing Marginal Utility states that as additional products are consumed, the utility gained from the next unit is lower than the utility gained from the previous unit</li> </ul>	
	<ul> <li>Marginal utility is the additional utility (satisfaction) gained from the consumption of an additional product</li> </ul>	
	<ul> <li>The utility gained from consuming the first unit is usually higher than the utility gained from consuming the next unit</li> </ul>	
	<ul> <li>For example, a hungry consumer gains high utility from eating their first hamburger. They are still hungry and purchase a second hamburger but gain less satisfaction from eating it than they did from the first hamburger</li> </ul>	

 Lowering the price makes it a more attractive proposition for the consumer to keep consuming additional units - and there is a movement down the demand curve



# Movements Along a Demand Curve

- If price is the only factor that changes (ceteris paribus), there will be a change in the quantity demanded (QD)
  - This change is shown by a **movement along the demand curve**



A demand curve showing a contraction in quantity demanded (QD) as prices increase and an extension in quantity demanded (QD) as prices decrease

### **Diagram Analysis**

- An increase in price from £10 to £15 leads to a movement up the demand curve from point A to B
  - Due to the increase in price, the QD has fallen from 10 to 7 units
  - This movement is called a **contraction** in QD
- A decrease in price from £10 to £5 leads to a movement down the demand curve from point A to point C
  - Due to the decrease in price, the QD has increased from 10 to 15 units

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• This movement is called an **extension** in QD



### Non-Price Determinants of Demand

# Shifts of the Demand Curve

- There are numerous factors that will change the demand for a good/service, irrespective of the price level. Collectively these factors are called the non-price determinants of demand and include
  - Changes in real income
  - Changes in tastes/preferences
  - Changes in the price of related goods (substitutes and complements)
  - Changes in the number of consumers
  - Future price expectations
- Changes to each of the non-price determinants, shifts the entire demand curve (as opposed to a movement along the demand curve)



A graph that shows how changes to any of the non-price determinants shifts the entire demand curve left or right, irrespective of the price level

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- For example, if a firm **increases** their **Instagram advertising**, there will be an **increase in demand** as more consumers become aware of the product
  - This is a **shift in demand** from D to D<sub>1</sub>. The price remains unchanged at £7 but the **demand has increased** from 15 to 25 units

### An Explanation of how each of the Non-Price Determinants of Demand Shifts the Entire Demand Curve at Every Price Level

Non-Price Determinant	Explanation	Condition	Shift	Condition	Shift
Changes in real income	<ul> <li>Real Income determines how many goods/services can be enjoyed by consumers</li> <li>There is a direct relationship between income and demand for goods/services</li> </ul>	Income Increases	D Increases Shifts Right (D→D <sub>1</sub> )	Income Decreases	D Decreas Shifts L€ (D→D <sub>2</sub> )
Changes in taste/preferences	<ul> <li>If goods/services become more preferable then demand for them increases</li> <li>There is a direct relationship between changes in taste/preferences and demand</li> <li>Advertising or branding can change tastes/preferences</li> </ul>	Good becomes more preferable	D Increases Shifts Right (D→D <sub>1</sub> )	Good becomes less preferable	D Decreas Shifts L∉ (D→D <sub>2</sub> )





Changes in the prices of substitute goods (Related goods)	<ul> <li>Changes in the price of substitute goods will influence the demand for a product/service</li> <li>There is a direct relationship between the price of good A and demand for good B</li> <li>E.g. The price of a Sony 60" TV (good A) increases so the demand for LG 60" TV (good B) increases</li> </ul>	Price of Good A Increases	D for Good B Increases Shifts Right (D→D <sub>1</sub> )	Price of Good A Decreases	D for Good B Decreas Shifts L€ (D→D <sub>2</sub> )	Your notes
Changes in the prices of complementary goods (Related goods)	<ul> <li>Changes in the price of complementary goods will influence the demand for a product/service</li> <li>There is an inverse relationship between the price of good A and demand for good B</li> <li>For example, the price of printer ink (good A) increases so the demand for ink printers (good B) decreases</li> </ul>	Price of Good A Increases	D for Good B Decreases Shifts Left (D→D <sub>2</sub> )	Price of Good A Decreases	D for Good B Increas Shifts Right (D→D <sub>1</sub> )	
Changes in the number of consumers	<ul> <li>If the population size of a country changes over time, then the demand for goods/services will also change</li> <li>There is a direct relationship between the changes in</li> </ul>	Population Increases	D Increases Shifts Right (D→D <sub>1</sub> )	Population Decreases	D Decreas Shifts L∉ (D→D <sub>2</sub> )	

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**Your notes** 

	<ul> <li>population size and demand</li> <li>Demand will also change if there is a change to the age distribution in a country as different ages demand different goods/services e.g an ageing population will buy more hearing aids</li> </ul>				
Future price expectations	<ul> <li>If consumers expects the price of a good/service to increase in the future, they will purchase it now and demand will increase</li> <li>If consumers expects the price of a good/service to decrease in the future, they will wait to purchase it later and demand will decrease</li> </ul>	Expectations price will rise	D Increases Shifts Right (D→D <sub>1</sub> )	Expectations price will fall	D Decreas Shifts L∉ (D→D2)

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### **Examiner Tips and Tricks**

The difference between a **movement along the demand curve** and a **shift in demand** is essential to understand. You will be repeatedly examined on this and it is important that you use the **correct language** to show that you understand the difference between **a change in quantity demanded** and a **change in demand**.

When **price changes** (ceteris paribus), there is a movement along the demand curve resulting in a change to **quantity demanded**. When a **non-price determinant of demand changes**, there is a shift of the entire demand curve resulting in a **change to demand**.