Positive Statenent: Can be tested against the facts

Normative Statement: An Opinion

Basic Economic Problem: Unlimited wants and limited or scarce resources Therefore people have trade offs or choices to make The key economic decisions are: what to produce, how to produce and who is to benefit from the goods and services produced.

Opportunity Cost

- Measures the cost of any choice in terms of the next best alternative foregone
- 1) Work Leisure choices: The opportunity cost of deciding not to work an extra ten hours a week is the lost wages foregone
- 2) Government Spending choices: The opportunity cost of the government spending £10 billion on investment in the NHS might be that £10 billion less is available for spending on Education.
- 3) Use of scarce farming land: The opportunity cost of using farmland to grow wheat for bio-fuel and not food means there is less wheat available for food production causing food prices to rise.

Factors of Production

Factor	Description	Reward/Incentive
Capital	Physical: goods which can	Interest from the
	be used in the production	investment
	process Fixed: Machines;	
	buildings Working:	
	finished or semi-finished	
	consumer goods	
Entrepreneurship	Managerial ability. The	Profit- an incentive to take
	entrepreneur is someone	risks
	who takes risks,	
	innovates, and uses the	
	factors of production.	
	Resources are drawn	
	together into the	
	production process.	
Land	Natural resources such as	Rent
	oil, coal, wheat, water. It	
	can also be the physical	
	space for fixed capital.	
Labour	Human capital, which is	Wages
	the workforce of the	
	economy.	

Elasticity is a measure of the extent to which quantity demanded responds to a change in price.

E.g. if you increase the price of car by 10% how much will the demand decrease by?

Formula: % change in Quantity Demanded % change in Price

MEANING

Demand doesn't

buy the same

Petrol on a motorway

Demand is LESS

responsive to a

change in price.

Equal response of

price will cause

10%

demand to rise by

Demand is MORE

responsive to a

change in price.

Tends to be normal

Consumers are only

prepared to pay one

price for the good

goods or luxuries

demand to a change

in price. A 10% fall in

Tends to be

necessities -Milk/Bread

change when price

changes. Consumers

quantity regardless

of changes in price.

Firm's

Firms can

excessive

prices to

maximise

Firms should

raise prices to

increase total

Firms revenue

is unchanged if

they change

prices up or

Firms should

reduce prices

total revenue

Firms DO NOT

change prices

to increase

down

revenue

revenue

charge

behaviour

PED

0

0 - 1

> 1

 ∞

TYPE

Perfectly

Inelastic

Inelastic

Unitary

Elastic

Perfectly

Elastic



Remember to Q before you P! Ignore the Minus sign!

Yesterday, the price of envelopes was £3 a box, and Julie was willing to buy 10 boxes.

Today, the price has gone up to £3.75 a box, and Julie is now willing to buy 8 boxes.

Is Julie's demand for envelopes elastic or inelastic?

Step 1 – Work out % change in Quantity Demanded

- Difference = 8 10 = -2
- Divide answer (-2) by original amount (+10)
- Multiply by 100
- -20%

Step 2 – Work out % change in Price

- Difference = £3.75 £3.00 = +£0.75
- Divide answer (£0.75) by original amount (£3.00)
- Multiply by 100
- +25%

Step 3 – Use the answers to step 1 & 2 in the formula

- Divide the answer to step 1 (-20%) by the answer to step 2 (+25%)
- Work out the answer it will ALWAYS be a negative answer
- Ignoring the negative sign look at the number only
- Use the table to the left to interpret the result
- Is the answer Elastic, Inelastic or Unitary Elasticity?
- What does that mean?

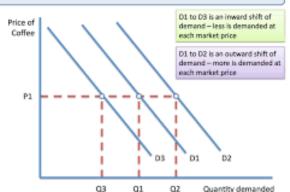
Law of Demand: As the Price increases, demand decreases. Price and quantity demanded are inversely related Law of Supply: As the price increases, supply increases. This is because higher prices signal higher profits. Effective Demand: The ability to purchase what goods you would like to buy

Joint Demand – where two goods are demanded together – complementary goods like Cars and Petrol Joint Supply – two goods are supplied together. A reduction in supply of one reduced the supply of the other – beef and leather

Normal Good – as income increases, demand increases. E.g. taking a taxi rather than the bus Inferior Good – as income increases, demand decreases. E.g. Choosing own brand food in a supermarket Composite Demand – where a good is demanded for more than one use. E.g. Oil Equilibrium – where price has no tendency to change

Derived Demand: Where the demand for one good comes from the demand for another – petrol and cars

Illustrating Shifts in the Demand Curve



Factors that shift the demand curve

Population

Advertising

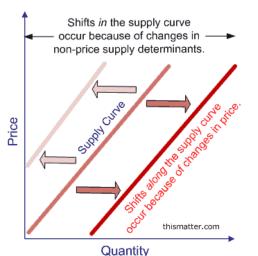
Substitutes

Income (Disposable)

Fashion and Taste

ncome tax

Complements



Factors that shift the supply curve

Productivity

Indirect Taxes

Number of Firms

Technology

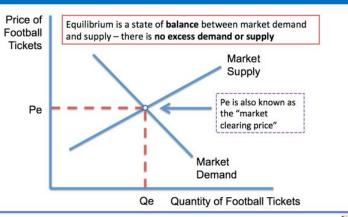
Subsidies

Weather

Costs of Production

EXAM TIP: Examiners test whether you can show changes in markets and effects on other markets and show changes to price and quantity demanded or supplied. This should be on a diagram TOGETHER with a written analysis

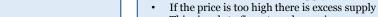
Showing Equilibrium Using Supply and **Demand Curves**



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Equilibrium

- Ideal state of every market
- No excess stock left over
- Everyone who wants to buy the good can
- Most efficient use of resources



P₁

EP

- This signals to firms to reduce prices
- · If the price is too low there is excess demand
- This signals to firms to raise prices so consumers ration demand

EQ

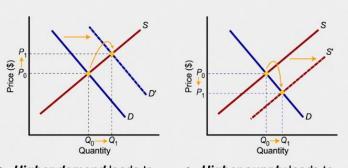
Excess Supply/Demand

Excess Supply

EP = EQ (No excess)

Excess Demand

Increases in Demand and Supply



- · Higher demand leads to higher equilibrium price and higher equilibrium quantity.
- · Higher supply leads to lower equilibrium price and higher equilibrium quantity.

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Karl Case, Ray Fair

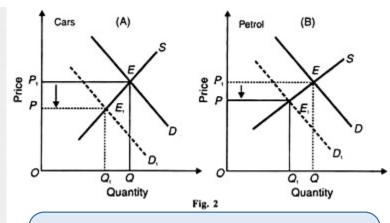


Diagram for Joint Demand

- If the demand for cars increases diagram on the left
- Then the demand for petrol shifts right diagram on the right
- In both markets the result is an increase in quantity and price

The implications of price elasticity of demand for producers

If a firm knows that the PED for its good is elastic, it should reduce the price of its good in order to increase total revenue. As a consequence of a small reduction in price, quantity demanded will rise significantly, thus increasing total revenue.

As previously discussed, the revenue a firm earns from selling its good is shown by the area under the demand curve. Therefore, if a firm knows that the PED for its good is inelastic, it should increase the price of its good in order to increase total revenue. As a consequence of a large increase in price, quantity demanded will fall marginally, thus increasing total revenue.

Change in the market	What happens to total revenue? Total revenue increases	
Ped is inelastic and a firm raises its price.		
Ped is elastic and a firm lowers its price.	Total revenue increases	
Ped is elastic and a firm raises price.	Total revenue decreases	
Ped is -1.5 and the firm raises price by 4%	Total revenue decreases	
Ped is -0.4 and the firm raises price by 30%	Total revenue increases	
Ped is -0.2 and the firm lowers price by 20%	Total revenue decreases	
Ped is -4.0 and the firm lowers price by 15%	Total revenue increases	

Demand Curve for Elastic Products



Products with elastic demand will be very sensitive to a change in price.

If the Wii consoles price was lowered from £150 (P1) to £125 (P2) the quantity demanded will increase by a lot.



Perfectly Inelastic Demand (Ped = 0)

If the co-efficient of price elasticity of demand = zero, demand is perfectly inelastic i.e. demand does not vary with a change in price

A perfectly inelastic demand curve is an extreme case for it implies that consumers are willing and able to pay any price for the product. If supply falls, equilibrium market price can rise without any contraction in the quantity demanded



Unitary Elastic Demand (Ped = 1)

A demand curve with unitary price elasticity has a coefficient of PED equal to 1 (unity) throughout

- With a demand curve of unitary price elasticity, a change in price is met with a proportionate change in demand
- This means that total spending by consumers on the product will remain the same at each price level



Demand Curve for Inelastic Products



Products with inelastic demand will not be very sensitive to a change in price.

If the price for a litre of petrol was lowered from £1 (P1) to 60p (P2) the quantity demanded will increase by very little.

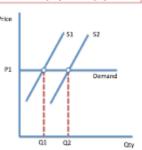


Perfectly Elastic Demand (Ped = infinity)

If the co-efficient of PED = infinity, then demand is perfectly elastic - there is one price at which consumers are prepared to pay

If demand for a product is perfectly elastic, a change in market supply (shown on the right as an outward shift of supply) will not lead to any change in the equilibrium price. This demand curve applies to highly competitive markets where no supplier has any "pricing power"

Price Price



Price Elasticity in Action: Uber and Surge Pricing

- Uber is a fast-growing taxi service app that now operates in more than 50 countries
- In May 2015, Uber was valued at about 41 billion U.S. dollars by venture-capital firms
- Uber engages in surge pricing also known as dynamic pricing
- At peak times, demand is less price elastic
 When market demand out-strips available supply e.g. at peak times, then Uber raises
- the average fare on their app
 The aim is to encourage more drivers to take to the roads to expand supply
- The business is taking advantage of low price elasticity of demand at busy times
- Some economists have criticised this policy especially during emergencies





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Necessity or luxury?

Consumer income

Habits

Availability of substitutes

Brand loyalty

Frequency of purchase