Week 1 - Introduction

Guillem Riambau. Introduction to Economic Analysis: Demand and Supply.

NUS - EC1101E

January 26, 2020



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Supply

Equilibrium

Questions

Remarks

Preliminaries

Markets

Demand

Equilibrium

Questions

Remarks

Why does an iPhone 11 cost \$1,889.00?

Preliminaries

Markets

Demand



Supply

Why does an iPhone 11 cost \$1,889.00?

Why does a blueberry muffin cost \$4 at NUS and \$5 at the CBD?



Preliminaries

Why does an iPhone 11 cost \$1,889.00?

Why does a blueberry muffin cost \$4 at NUS and \$5 at the CBD?

Why is grab more expensive on Friday evenings (especially when it rains)?



Some useful reminders

Preliminaries

All materials are posted on LumiNUS:

- Weekly readings are here
- Pre-lecture videos are here
- Problem sets (for tutorials) are here
- Next week two tutorials for everyone. Tuesday AND either Thursday or Friday.



Some useful reminders

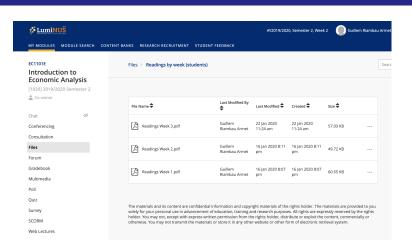
Preliminaries

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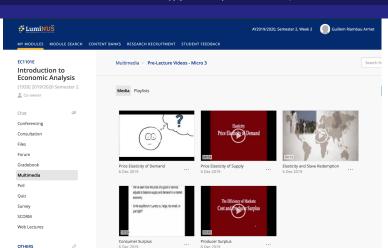
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- Next week two tutorials for everyone. Tuesday AND either Thursday or Friday.
- Recall attendance is compulsory

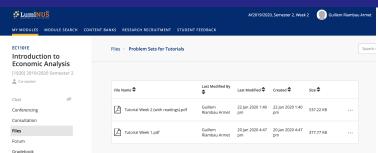


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Goals

Preliminaries

Markets

By the end of this lecture you should...

- ...understand what can affect consumers' demand for a good
- ...understand what can affect producers' supply for a good
- ...be able to tell what happens in market prices and quantities purchased after observing a change
- (i.e., how are prices determined)



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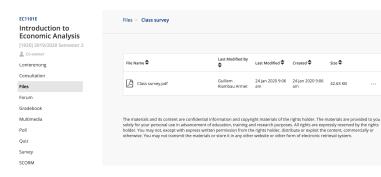
Key concepts

Preliminaries

- Demand vs. quantity demanded
- Law of demand
- Supply vs. Quantity supplied
- Law of supply

Preliminaries: a note on markets

Markets





Preliminaries

Markets Demand Supply Equilibrium Questions Remarks

Preliminaries: a note on markets

Preliminaries





Why are doctors paid so much?

Why do coins have ridges?

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Preliminaries: a note on markets

Markets

- (Imaginary) Space where buyers and sellers carry out their transactions
- Perfectly competitive markets



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Preliminaries

Preliminaries: a note on markets

- (Imaginary) Space where buyers and sellers carry out their transactions
- Perfectly competitive markets
 - Goods are standardized
 - There's always another seller next door / there's always another buyer down the line
 - Prices are given



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Preliminaries

Preliminaries

Preliminaries: a note on markets

- (Imaginary) Space where buyers and sellers carry out their transactions
- Perfectly competitive markets
 - Goods are standardized
 - There's always another seller next door / there's always another buyer down the line
 - Prices are given
- Perhaps not fully realistic
- But most markets are close to perfectly competitive
- Our models are useful to explain market dynamics



Goal: understand prices and quantities sold/bought

- Step 1. How much are consumers willing to pay?
- Step 2. How much are producers willing to sell?
- Step 3. What happens when they meet.



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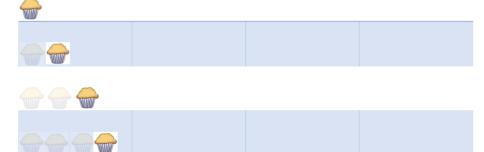












Preliminaries Markets Demand Supply Equilibrium Questions Remarks











How much are they willing to pay for the first muffin?



How much are they willing to pay for the second muffin?



How much are they willing to pay for the third muffin?



How much are they willing to pay for the fourth muffin?

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	\$6	
	\$5	
	\$4	
	\$1	

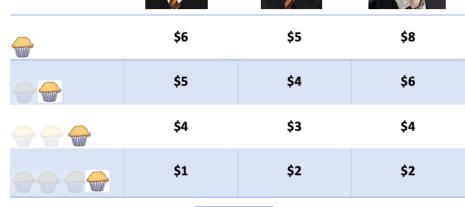








	\$6	\$5	
	\$5	\$4	
	\$4	\$3	
	\$1	\$2	



Diminishing return



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Price	Quantity demanded



Price (in \$)	Quantity demanded
8	1
7	1
6	3
5	5
4	8
3	9
2	11
1	12







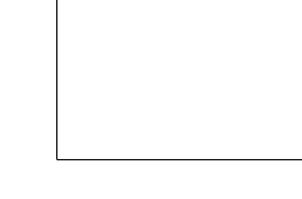
_	\$6	\$5	\$8
⊕	\$5	\$4	\$6
→ →	\$4	\$3	\$4
	\$1	\$2	\$2

Equilibrium

Questions

Remarks

Supply



Demand

Number of muffins

Preliminaries

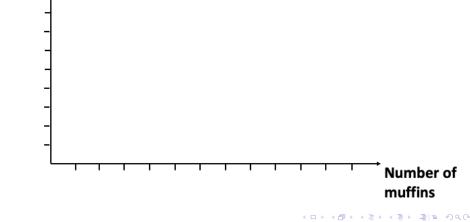
Markets

Equilibrium

Questions

Remarks

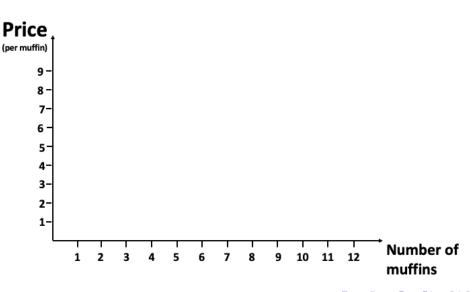
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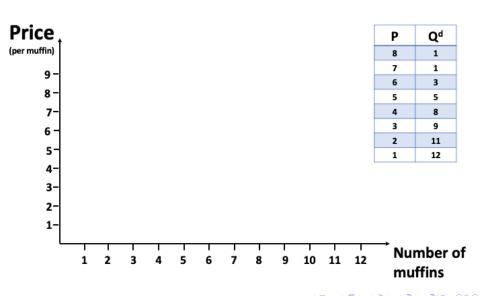


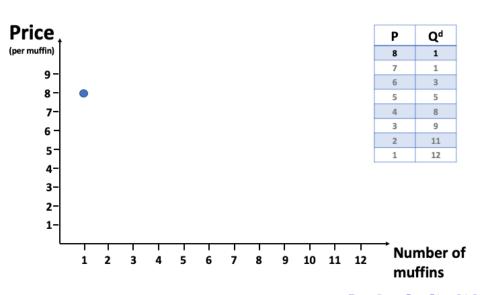
Preliminaries

Price (per muffin) Markets

Demand

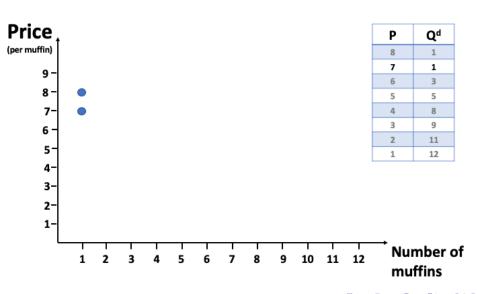






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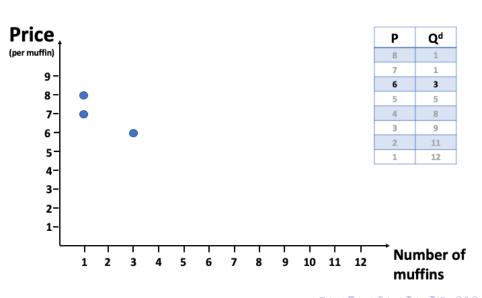
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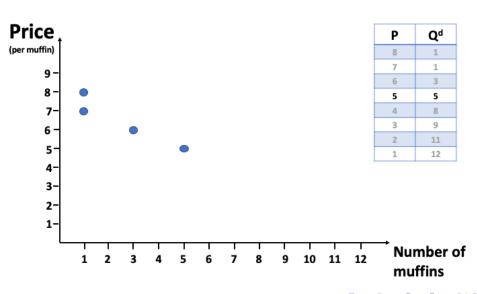
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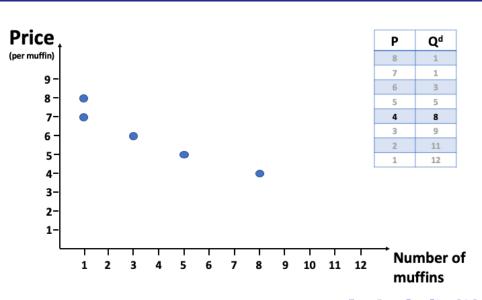
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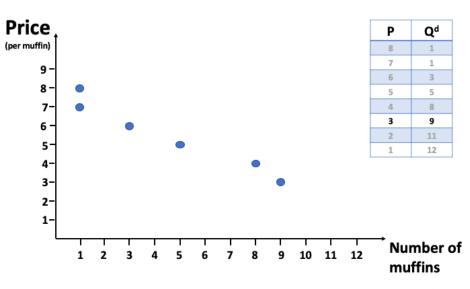
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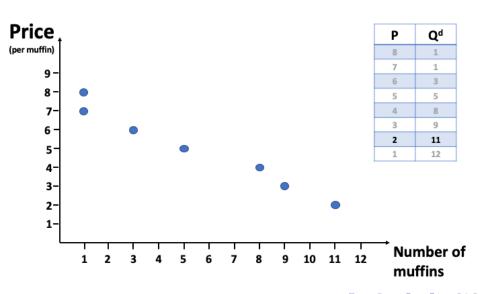
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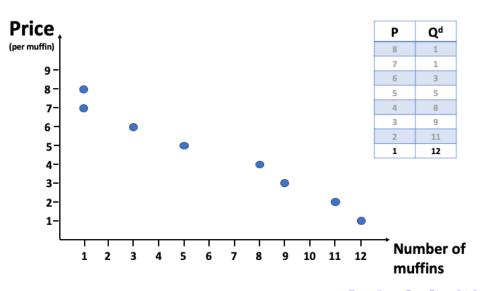
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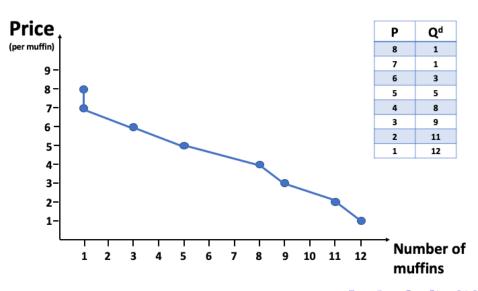


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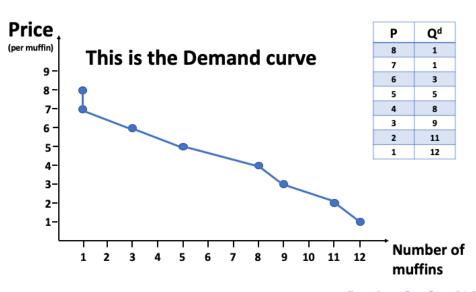


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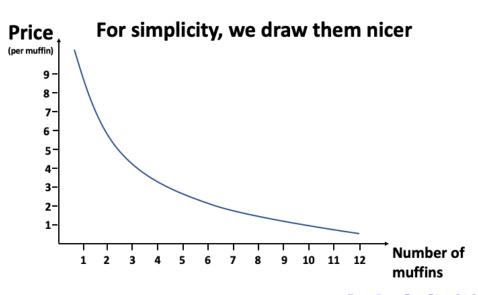


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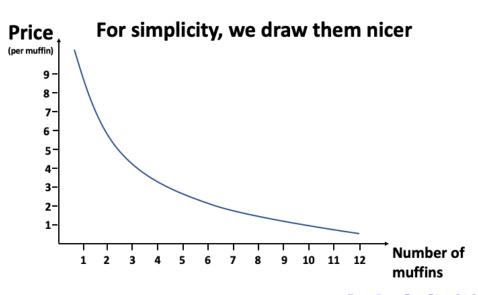
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Demand Supply Equilibrium Questions Remarks

Law of Demand

Preliminaries

Law of Demand

Markets

The law of demand states that when the price of a good rises and everything else remains the same, the quantity of the good demanded will fall.



Law of Demand

Preliminaries

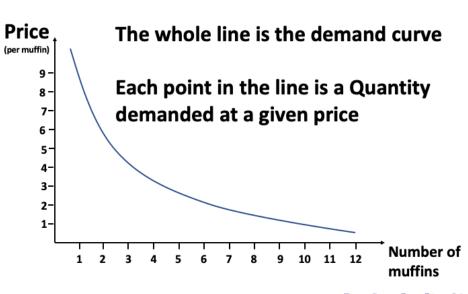
Law of Demand

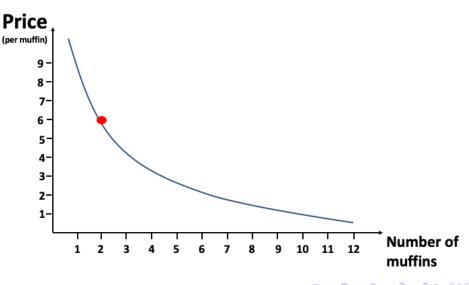
The law of demand states that when the price of a good rises and everything else remains the same, the quantity of the good demanded will fall.

⇒ Demand curves are downward sloping

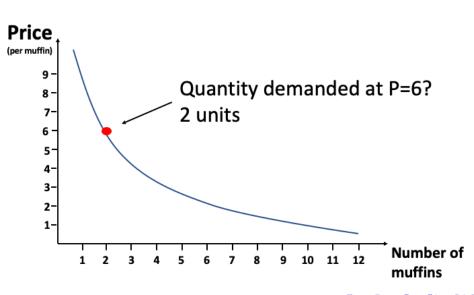


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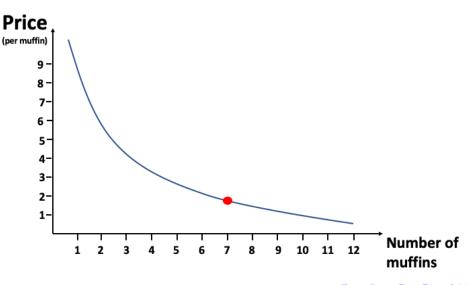




Equilibrium







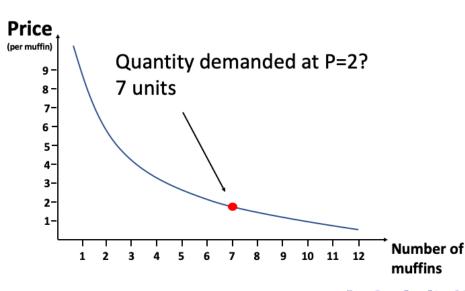


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Demand \neq Quantity demanded

Quantity Demanded

The quantity demanded of a good or service is the number of units that all buyers in a market would choose to buy over a given time period, given the constraints that they face.

- Demand refers to the list of different quantities demanded at different prices, with all other variables that affect the demand decision assumed constant
- Demand refers to the entire relationship between price and quantity demanded, represented by the entire demand curve



What affects demand?

- Tastes and preferences details
- Consumers' wealth and income details
 - Normal goods
 - Inferior goods
- - Complements
 - Substitutes
- Expected (future) prices details



Demand \neq Quantity demanded

- Change in demand ⇒ Curve shifts
 - Related to all changes expect for changes in the price of the good
- Change in Quantity demanded ⇒ Movement along the curve
 - Related only to changes in the price of the good



Goal: understand prices and quantities sold/bought

- Step 1. How much are consumers willing to pay?
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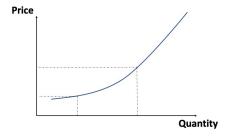
Markets Demand Supply Equilibrium Questions Remarks

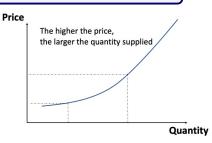
Law of Supply

Preliminaries

Law of Supply

The law of supply states that when the price of a good rises, and everything else remains the same, the quantity of the good supplied will rise.







Law of Supply. One example: durian plantation

Price of durian in Singapore ↑. What are you –as a plantation owner in Malaysia – going to do?

- Shift all your stocks towards Singapore
- Hire more people to collect durians more intensively
- If needed, hire cars and trucks to transport them
- etc.

If a good becomes very profitable, producers will want to divert resources to it



$Supply \neq Quantity Supplied$

Quantity Supplied

Preliminaries

The market quantity supplied is the amount of a good or service that all producers together would offer for sale at each price, given the constraints they face.

Supply Curve

The supply curve shows the relationship between the price of a good and the quantity supplied in the market, holding constant the values of all other variables that affect supply. Each point on the curve shows the quantity that sellers would choose to sell at a specific price.



Preliminaries

- Input prices
- Prices of alternative goods produced by the company
- Technology
- Number of firms
- Expected (future) price
- Weather and other natural events



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- Input prices
 - If price of flour ↓,



- Input prices
 - If price of flour \downarrow , \Rightarrow Supply of muffins \uparrow

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Preliminaries

- Input prices
 - If price of flour \downarrow , \Rightarrow Supply of muffins \uparrow
- Prices of alternative goods produced by the company
 - If price of running shoes ↑,

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- Input prices
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 - If I can separate rotten tomatoes from good ones faster,



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 Supply shifts right



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Markets

- Input prices
 - If price of flour \downarrow , \Rightarrow Supply of muffins \uparrow
- Prices of alternative goods produced by the company
 - If price of running shoes \uparrow , \Rightarrow Supply of running shorts \downarrow
- Technology
 - \bullet If I can separate rotten tomatoes from good ones faster, \Rightarrow Supply shifts right
- Number of firms ⇒ Supply shifts right



- Input prices
 - If price of flour \downarrow , \Rightarrow Supply of muffins \uparrow
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 - \bullet If I can separate rotten tomatoes from good ones faster, \Rightarrow Supply shifts right
- Number of firms ⇒ Supply shifts right
- Expected (future) price



- Input prices
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 - \bullet If I can separate rotten tomatoes from good ones faster, \Rightarrow Supply shifts right
- Number of firms ⇒ Supply shifts right
- Expected (future) price
 - If p^e umbrellas ↑,



Demand

What affects supply?

Preliminaries

- Input prices
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- Technology
 - If I can separate rotten tomatoes from good ones faster, ⇒ Supply shifts right
- Number of firms ⇒ Supply shifts right
- Expected (future) price
 - If p^e umbrellas \uparrow , \Rightarrow hold on to stock to sell them later \Rightarrow Supply shifts left



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Demand

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Preliminaries

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What affects supply?

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- Prices of alternative goods produced by the company
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- Technology
 - \bullet If I can separate rotten tomatoes from good ones faster, \Rightarrow Supply shifts right
- Number of firms ⇒ Supply shifts right
- Expected (future) price
 - If p^e umbrellas ↑, ⇒ hold on to stock to sell them later ⇒
 Supply shifts left
- Weather and other natural events
 - Drought ⇒ crop yields ↓ ⇒ Supply of rice shifts left



Supply ≠ Quantity Supplied

Markets

- \bullet When prices change \longrightarrow We move along the curve
- When *anything but prices* changes The curve shifts



Goal: understand prices and quantities sold/bought

- Step 1. How much are consumers willing to pay?
- Step 2. How much are producers willing to sell?
- Step 3. What happens when they meet: market equilibrium



What are the final price and quantity for a given good?

Equilibrium price and equilibrium quantity

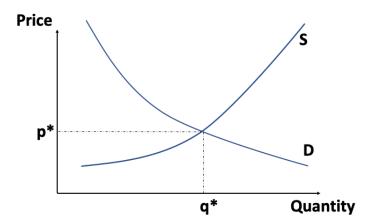
The equilibrium price and equilibrium quantity are values for price and quantity in the market that, once achieved, will remain constant—unless and until the supply curve or the demand curve shifts.



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Equilibrium

Market equilibrium





Equilibrium

- What is the equilibrium price?
- What if the price is below equilibrium?
- What if the price is above equilibrium?



Equilibrium

- What is the equilibrium price?
 - Price such that supply meets demand
- What if the price is below equilibrium? ► Excess Demand



Why does an iPhone 11 cost \$1,889.00?

Preliminaries

Why does a blueberry muffin cost \$4 at NUS and \$5 at the CBD?

Why is grab more expensive on Friday evenings (especially when it rains)?



Preliminaries Markets Demand Supply Equilibrium Questions Remarks

Some questions













Preliminaries Markets Demand Supply Equilibrium Questions Remarks K!

What is the effect of limited supply on the price of goods?



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On positional goods

- Positional good: valued because is not possessed by others
- Scarcity makes them pricey ⇒ many consumers "fighting" for it
- More examples?



Preliminaries Markets Demand Supply Equilibrium Questions Remarks

What can affect the price of a muffin?



















Remarks

- Demand ≠ Quantity demanded
- Shifting the curve ≠ moving along the curve
- When "something changes", how does that affect equilibrium price and quantities?
 - Which curve is affected?
 - Mow does it shift? (in what direction?)
 - What is the overall effecte?



Next week

Preliminaries

- Tutorial Tuesday 28 & Thursday/Friday
- Welfare Economics: Consumer and producer surplus
- Elasticity

Markets

All readings posted



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Kahoot: 3 questions

Preliminaries

- Ouestion 1
- Question 2
- Ouestion 3

K!

K!

Kahoot: Question 1

What happens to the market for kankong when a new MOH study reveals it has immense unknown antidetox properties?

- $\mathbf{0}$ $p^* \uparrow$, $q^* \uparrow$
- p* (?), q* ↑
- **⑤** p* (?), q* (?)
- **4** $p^* \uparrow, q^* (?)$



K!

Kahoot: Question 1

What happens to the market for kankong when a new MOH study reveals it has immense unknown antidetox properties?

- \bullet $p^* \uparrow$, $q^* \uparrow \checkmark$ (Why? Demand shifts right)
- p* (?), q* ↑
- **6** p* (?), q* (?)
- **4** $p^* \uparrow$, q^* (?)

▶ back to slide



Kahoot: Question 2

Preliminaries

What happens to the market of muffins if (a) flour price increases (b) students' income increases?

- $\mathbf{0} \quad p^* \uparrow, \ q^* \uparrow$
- 2 p^* (?), $q^* \uparrow$
- **⑤** p* (?), q* (?)
- **4** $p^* \uparrow$, q^* (?)



Equilibrium

K!

Kahoot: Question 2

What happens to the market of muffins if (a) flour price increases (b) students' income increases?

- $\mathbf{0}$ $p^* \uparrow$, $q^* \uparrow$
- **2** p^* (?), $q^* \uparrow$
- **6** p^* (?), q^* (?)



Kahoot: Question 2

Markets

- What happens to the market of muffins if (a) flour price increases?
 - This affects supply. Supply shifts left.
- What happens to the market of muffins if (b) students' income increases?
 - This affects demand. Demand shifts right.
- What's the overall effect?

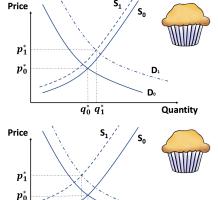


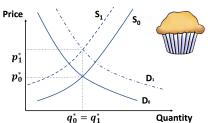
Markets

Demand

K!

Kahoot: Question 2





Note that depending on the size of each effect we may have that quantity in equilibrium increases, decreases, or stays the same.

Without further information on the size of each effect, we cannot tell. Note, however, that we know for sure that price will increase, regardless of the sizes.



Quantity

 $q_{1}^{*} q_{0}^{*}$

Kahoot: Question 3

What happens in the market for winter jackets if (a) Siberian cold wave expected (b) price of jumpers decreases?

- 2 p^* (?), $q^* \uparrow$
- **6** p* (?), q* (?)
- **4** $p^* \uparrow, q^*$ (?)



Kahoot: Question 3

What happens in the market for winter jackets if (a) Siberian cold wave expected (b) price jumpers decreases

- $\mathbf{0}$ $p^* \uparrow$, $q^* \uparrow$
- p* (?), q* ↑
- **4** $p^* \uparrow, q^*$ (?)



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Kahoot: Question 3

Preliminaries

- What happens to the market of jackets if (a) Siberian cold wave expected?
 - This affects demand. Demand shifts right, as people will want to pay more for jackets now.
- What happens to the market of jackets if (b) price of jumpers decreases?
 - This affects demand. Demand shifts left, as people will want to pay less for jackets now, since a close substitute like jumpers has become cheaper.
- Which effect will dominate? Without further information, we do not know. So we cannot be precise about the overall effect. Next three slides illustrate this.



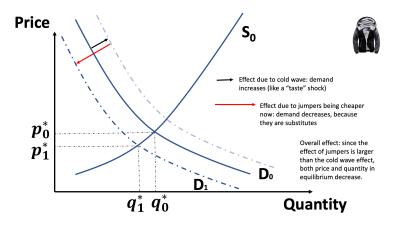
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Demand

Equilibrium

K!

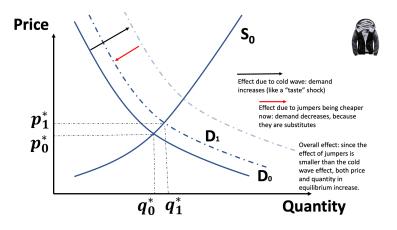
Kahoot: Question 3





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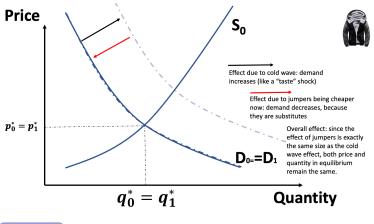
Kahoot: Question 3





K!

Kahoot: Question 3





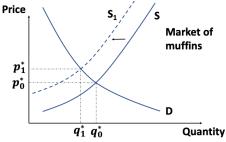
Option 1: Cereals

Suppose price of flour from Australia rises. What happens to the market of muffins in Singapore?

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Option 1: Cereals

Suppose price of flour from Australia rises. What happens to the market of muffins in Singapore?



Flour is input for muffins.

Price of flour $\uparrow \Rightarrow$ Supply of muffins shifts left \Rightarrow Price of muffins \uparrow

▶ back to slides







Option 2: Sugar beets

• Suppose there are massive floods in Turkey

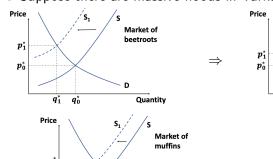
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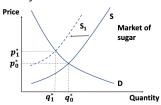


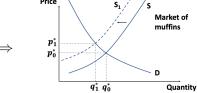


Option 2: Sugar beets

• Suppose there are massive floods in Turkey







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- Suppose price of oil for naval engines decreases
 - What happens to the market of sugar in Singapore?
 - Supply of sugar increases (easier to transport sugar) ⇒ Supply of sugar shifts right

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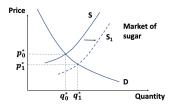
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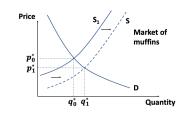
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 - ⇒ Sugar is an input for muffins. Hence, supply of muffins shifts right
 - ullet \Rightarrow Price \downarrow and quantity \uparrow
 - (graphs next slide)









Sugar is input for muffins.

Price of sugar $\downarrow \Rightarrow$ Supply of muffins shifts right

▶ back to slides

Option 4:

• Suppose new technology allows for muffins to be produced more efficiently. What will the effect be?

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Option 4:

- Suppose new technology allows for muffins to be produced more efficiently. What will the effect be?
- If effects the Supply curve
- The supply curve shifts right: more muffins can be produced at the same cost
- Equilibrium price decreases
- Quantity increases

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Option 5:

- Trump's politics result in a slowdown of international trade.
 What would happen?
- Since sugar and other inputs are imported, less of those products will be available.
- The situation would be very similar to the one with \(\bigsugarbeets\)

▶ back to slides

Option 6:

• Suppose workers' wages increase. What will the effect be?

Option 6:

- Suppose workers' wages increase. What will the effect be?
- If effects the Supply curve
- The supply curve shifts left: fewer muffins can be produced at the same cost
- Equilibrium price increases
- Quantity decreases





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Option 7:

 Suppose the price of milk increases and milk & muffins are complements. What will the effect be?

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Option 7:

- Suppose the price of milk increases and milk & muffins are complements. What will the effect be?
- If effects the Demand curve
- The demand curve shifts right: people will be willing to pay more for muffins now
- Equilibrium price increases
- Quantity increases

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Option 8:

- Note: previous research has shown that people tend to reward themselves with "unhealthy" /caloric food after carrying out demanding tasks
- Suppose profs in FASS increase the in-class and homework load. What will the effect be?

Option 8:

- Note: previous research has shown that people tend to reward themselves with "unhealthy" /caloric food after carrying out demanding tasks
- Suppose profs in FASS increase the in-class and homework load. What will the effect he?
- If effects the Demand curve
- The demand curve shifts right: students will be willing to pay more for muffins now
- Equilibrium price increases
- Quantity increases



Option 9:

• Suppose the price of Oreos increases and milk & muffins are substitutes. What will the effect be?

Option 9:

- Suppose the price of Oreos increases and milk & muffins are substitutes. What will the effect be?
- If effects the Demand curve
- The demand curve shifts left: people will be willing to pay less for muffins now
- Equilibrium price decreases
- Quantity decreases

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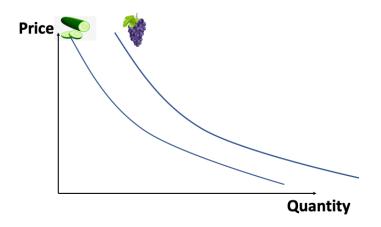
Diminishing returns

- Note: the more muffins the better...
- ... but the more they have, the less they are willing to pay for them
- This is what we call diminishing returns: since each additional muffin provides them with a <u>smaller</u> sense of utility, they want to pay less for this
- In economics we typically assume diminishing returns for all goods and services.

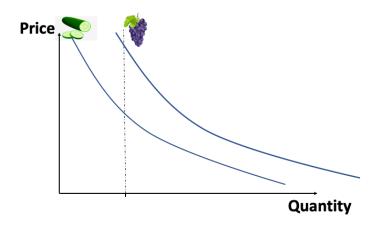
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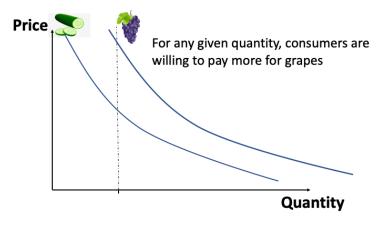
Tastes and preferences



Tastes and preferences

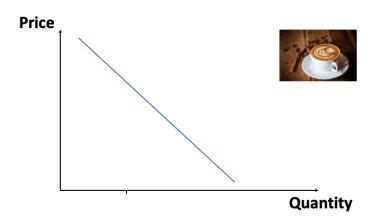


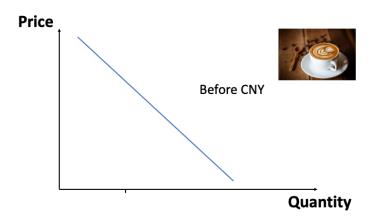
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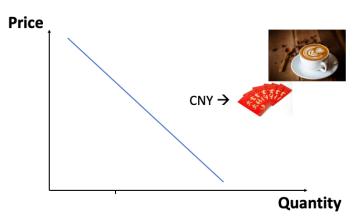
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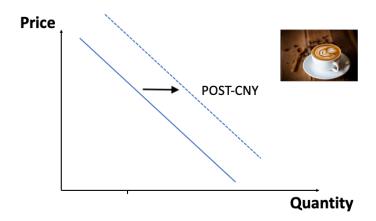


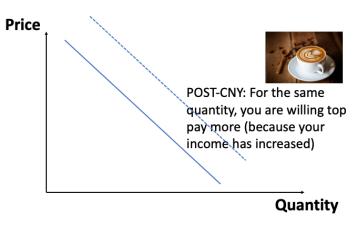


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- Sometimes when income \uparrow , demand for a given good \downarrow
- Can you think of an example?
- Why is that the case?

- ullet Sometimes when income \uparrow , demand for a given good \downarrow
- Can you think of an example?
- Why is that the case?
- Rice, bread, noodles
- People switch away to buy other foods

- Normal goods: income ↑, demand ↑
- Inferior goods: income ↑, demand ↓

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Price of related goods



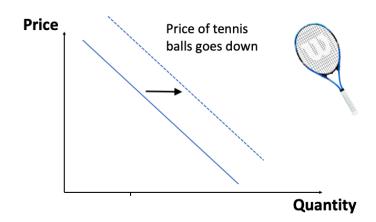






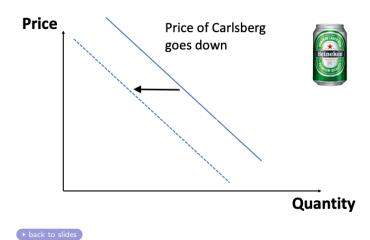


Price of related goods



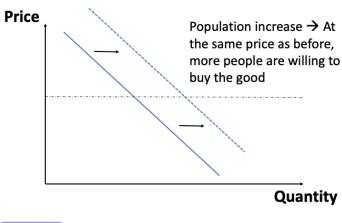
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Price of related goods



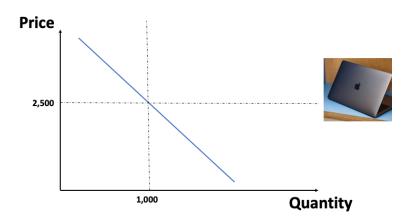


Population



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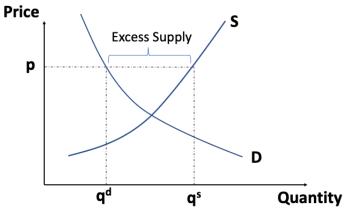
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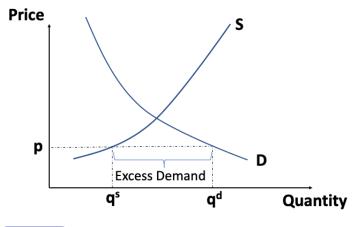
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Excess Supply



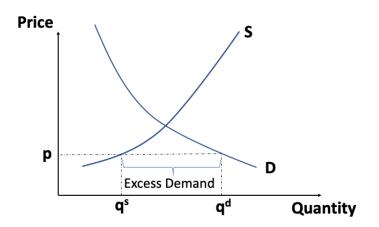
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Excess Demand

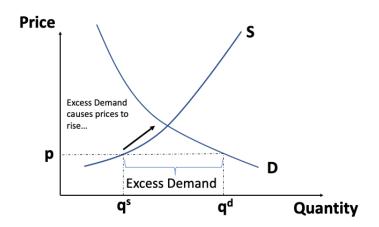


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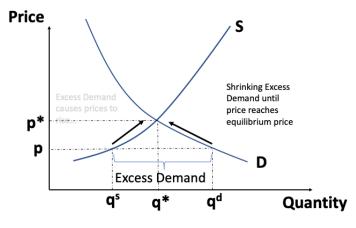
Excess Demand



Excess Demand

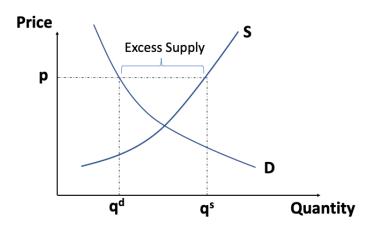


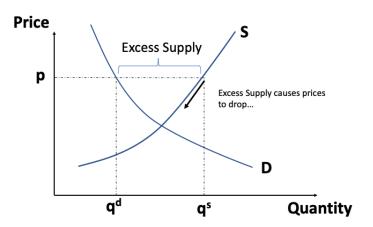
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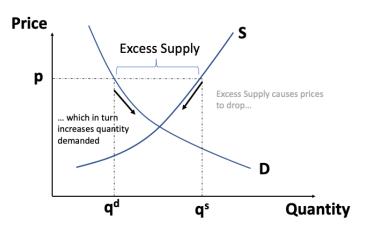


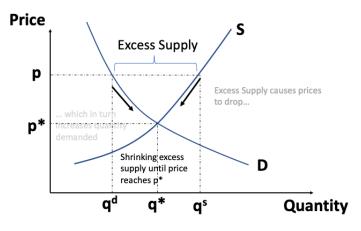
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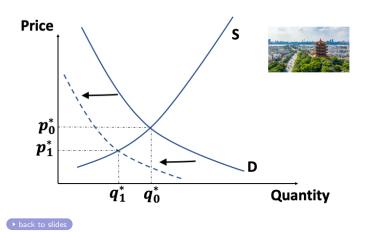




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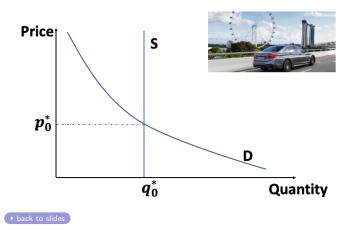
Wuhan flights





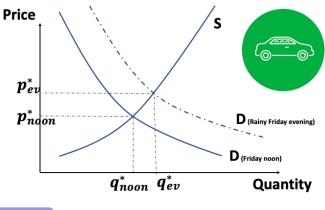
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COE in Singapore



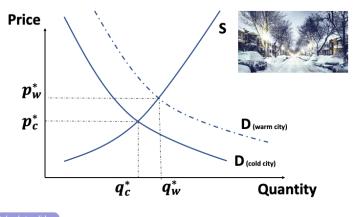


Gran on rainy Friday evenings



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Why to hold events in cold cities





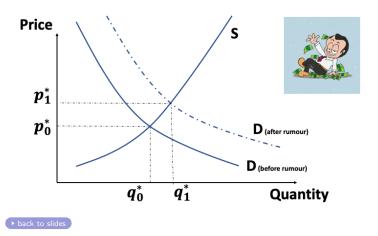
Want prices to increase?

- Suppose you sell jeans
- Convince everyone that the price of jeans will dramatically increase next month

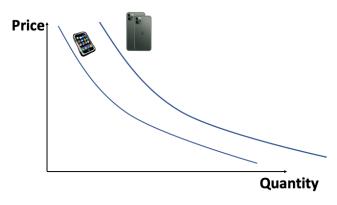
Want prices to increase?

- Suppose you sell jeans
- Convince everyone that the price of jeans will dramatically increase next month
- What will happen?
- Everyone will rush to buy jeans now. Effect?

frametitle

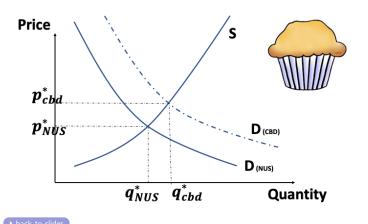


iPhones



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Why are muffins more expensive in the CBD than at NUS?





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