6 Government Policies

Rent Control

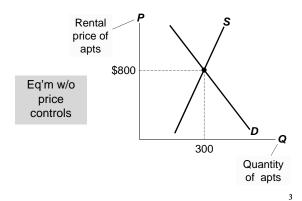
- The city council of Chuncheon decides to regulate rents in order to reduce student living expenses. Suppose the average annual marketclearing rent for a one-bedroom apartment is \$400 per month. The city council limits rents to \$200 per month.
- Will the policy benefit all KNU students? Why or why not?

Government Policies That Alter the Private Market Outcome

- Price controls
 - (): a legal maximum on the price of a good or service Example: rent control
 - (): a legal minimum on the price of a good or service Example: minimum wage
- Taxes
 - The govt can make buyers or sellers pay a specific amount on each unit.

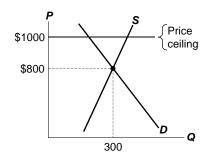
We will use the supply/demand model to see how each policy affects the market outcome (the price buyers pay, the price sellers receive, and eq'm quantity).

EXAMPLE 1: The Market for Apartments



How Price Ceilings Affect Market Outcomes

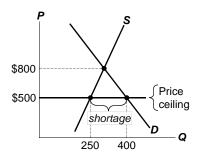
A price ceiling above the eq'm price is **not binding** has no effect on the market outcome.



How Price Ceilings Affect Market Outcomes

(\$800) is above the ceiling and therefore illegal. The ceiling is a binding constraint on the price, causes a shortage.

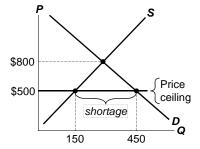
The eq'm price



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How Price Ceilings Affect Market Outcomes

In the long run, supply and demand are more price-elastic. So, the shortage is larger.



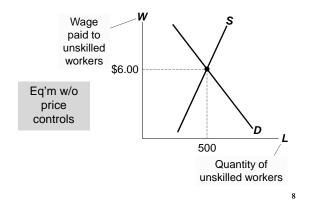
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Shortages and Rationing

- With a shortage, sellers must ration the goods among buyers.
- Some rationing mechanisms: (1) Long lines
 (2) Discrimination according to sellers' biases
- These mechanisms are often unfair, and inefficient: the goods do not necessarily go to the buyers who value them most highly.
- In contrast, when prices are not controlled, the rationing mechanism is efficient (the goods go to the buyers that value them most highly) and impersonal (and thus fair).

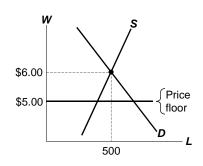
-

EXAMPLE 2: The Market for Unskilled Labor



How Price Floors Affect Market Outcomes

A price floor below the eq'm price is **not binding** – has no effect on the market outcome.



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How Price Floors Affect Market Outcomes

labor The eq'm wage (\$6) surplus is below the floor Price \$7.25 and therefore floor illegal. \$6.00 The floor is a binding constraint on the wage, causes a 'n surplus (i.e., 400 550 unemployment).

The Minimum Wage

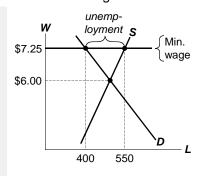
highly skilled workers.

They do affect teen workers.

Studies:
A 10% increase in the min wage raises teen unemployment by 1–3%.

Min wage laws

do not affect



Evaluating Price Controls

- Recall one of the Ten Principles from Chapter 1: Markets are usually a good way to organize economic activity.
- Prices are the signals that guide the allocation of society's resources. This allocation is altered when policymakers restrict prices.
- Price controls often intended to help the poor, but often hurt more than help.

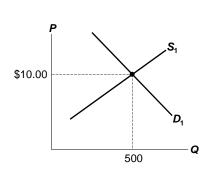
Taxes

- The govt levies taxes on many goods & services to raise revenue to pay for national defense, public schools, etc.
- The govt can make buyers or sellers pay the tax.
- The tax can be a % of the good's price, or a specific amount for each unit sold.
 - For simplicity, we analyze per-unit taxes only.

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EXAMPLE 3: The Market for Pizza

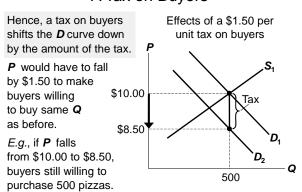
Eq'm w/o tax



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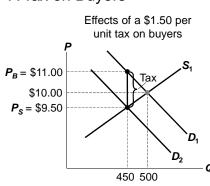
A Tax on Buyers



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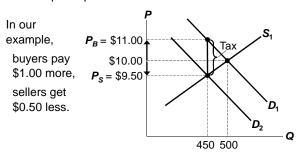
A Tax on Buyers

New eq'm: Q = 450Sellers receive $P_S = \$9.50$ Buyers pay $P_B = \$11.00$ Difference between them $= \$1.50 = \tan x$



The **Incidence** of a Tax:

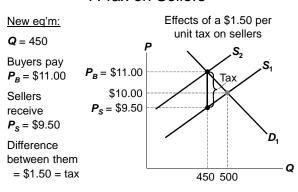
how the burden of a tax is shared among market participants



A Tax on Sellers

Effects of a \$1.50 per The tax effectively raises unit tax on sellers sellers' costs by \$1.50 per pizza. \$11.50 Sellers will supply 500 pizzas \$10.00 only if P rises to \$11.50, to compensate for this cost increase. Hence, a tax on sellers shifts the O 500 S curve up by the amount of the tax.

A Tax on Sellers

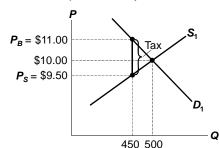


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The Outcome Is the Same in Both Cases!

The effects on P and Q, and the tax incidence are the same whether the tax is imposed on buyers or sellers!

What matters is this:
A tax drives a wedge between the price buyers pay and the price sellers receive.

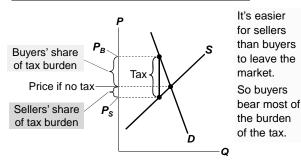


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Elasticity and Tax Incidence

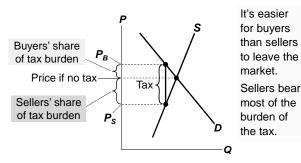
CASE 1: Supply is more elastic than demand



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Elasticity and Tax Incidence

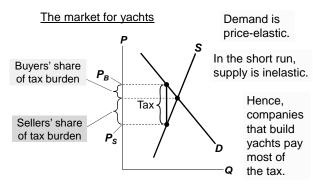
CASE 2: Demand is more elastic than supply



CASE STUDY: Who Pays the Luxury Tax?

- 1990: Congress adopted a luxury tax on yachts, private airplanes, furs, expensive cars, etc.
- Goal: raise revenue from those who could most easily afford to pay—wealthy consumers.
- But who really pays this tax?

CASE STUDY: Who Pays the Luxury Tax?



CONCLUSION: Government Policies and the Allocation of Resources

- Each of the policies in this chapter affects the allocation of society's resources.
 - Example 1: A tax on pizza reduces eq'm Q.
 With less production of pizza, resources (workers, ovens, cheese) will become available to other industries.
 - Example 2: A binding minimum wage causes a surplus of workers, a waste of resources.
- So, it's important for policymakers to apply such policies very carefully.