

Supply, Demand, and **Government Policies**

PRINCIPLES OF

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Premium PowerPoint® Slides by Ron Cronovich 2008 update

Modified by Joseph Tao-yi Wang

How do taxes affect market outcomes? How does the outcome depend on whether the tax is imposed on buyers or sellers?

How do price ceilings and price floors affect

In this chapter, look for the answers to

What are price ceilings and price floors? What are some examples of each?

What is the incidence of a tax? What determines the incidence?

these questions:

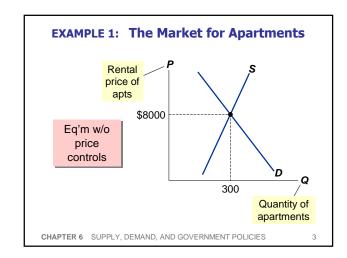
market outcomes?

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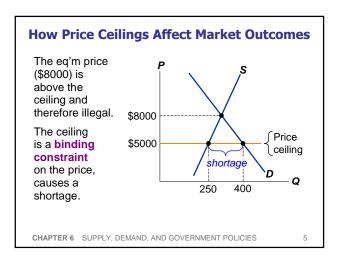
Government Policies That Alter the Private Market Outcome

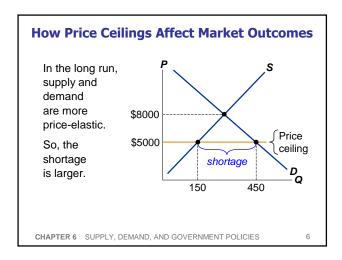
- Price controls
 - Price ceiling: a legal maximum on the price of a good or service. Example: rent control.
 - Price floor: a legal minimum on the price of a good or service. Example: minimum wage.
- - The govt can make buyers or sellers pay a specific amount on each unit bought/sold.

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).



How Price Ceilings Affect Market Outcomes A price ceiling above the Price \$10000 eg'm price is ceiling not binding -\$8000 has no effect on the market outcome. D Q 300 CHAPTER 6 SUPPLY, DEMAND, AND GOVERNMENT POLICIES



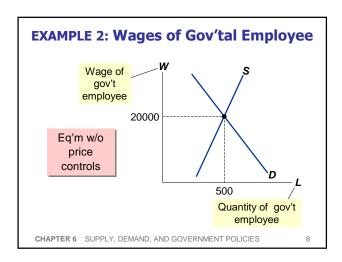


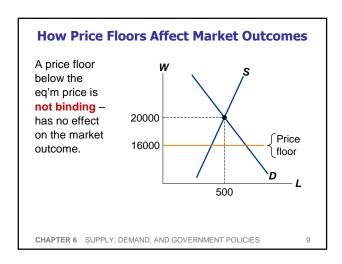
Shortages and Rationing

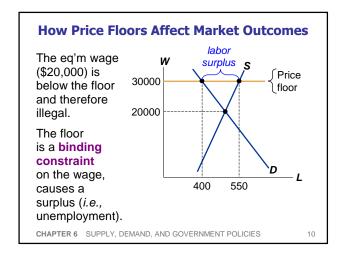
- With a shortage, sellers must ration the goods among buyers.
- Some rationing mechanisms: (1) long lines
 (2) discrimination according to sellers' biases
- These mechanisms are often unfair, and inefficient: the goods do not necessarily go to the buyers who value them most highly.
- In contrast, when 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).

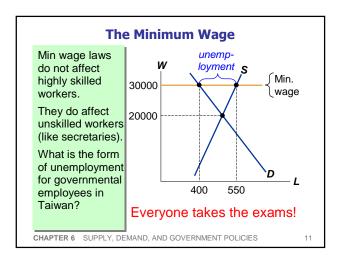
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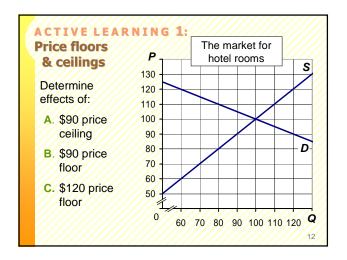
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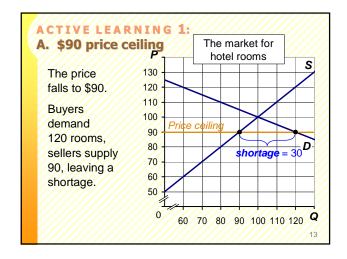


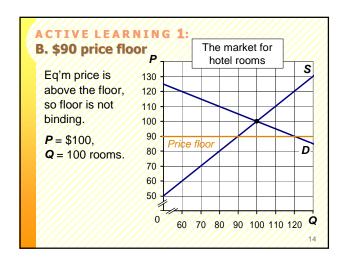


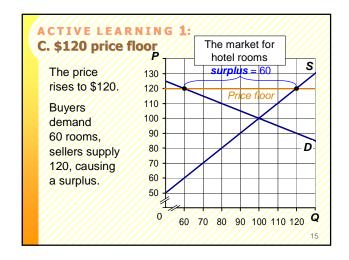












Evaluating Price Controls

 Recall one of the Ten Principles: Markets are usually a good way to organize economic activity.



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- 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.

The govt can make buyers or sellers pay the tax.

to raise revenue to pay for national defense,

Taxes

The govt levies taxes on many goods & services

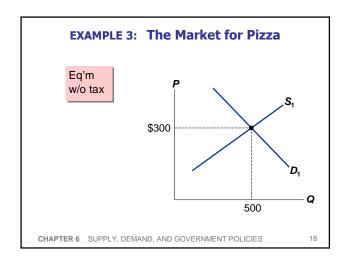
 The tax can be a % of the good's price, or a specific amount for each unit sold.

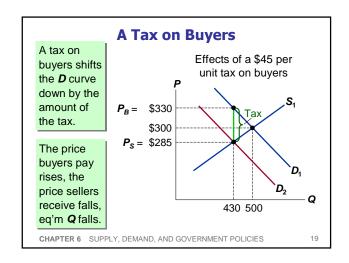
public schools, etc.

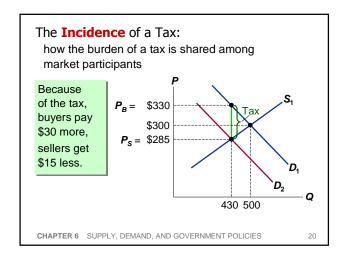
• For simplicity, we analyze per-unit taxes only.

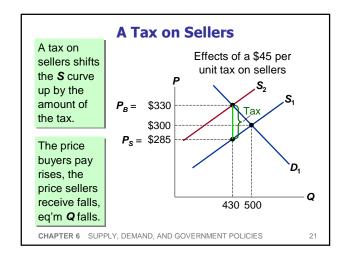
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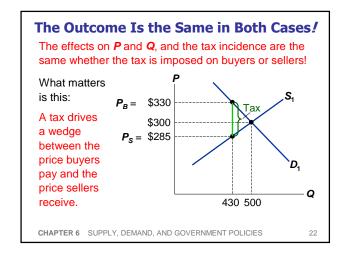
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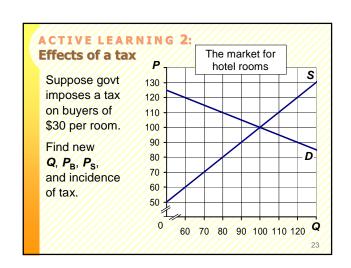


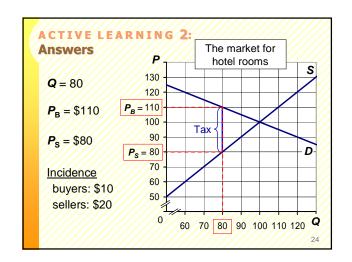


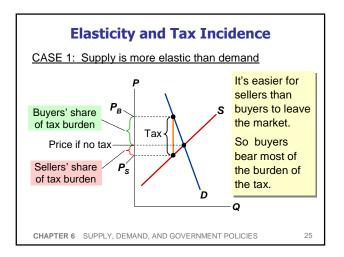


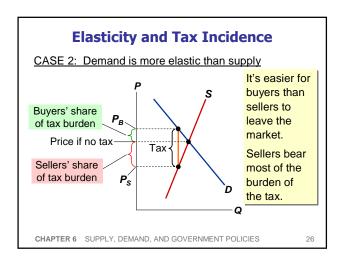










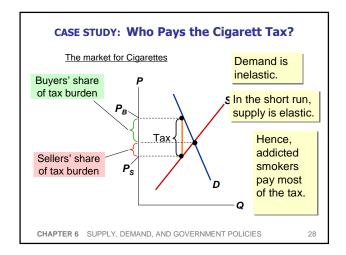


CASE STUDY: Who Pays the Cigarette Tax?

- 2006: Taiwan's Legislative Yuan increased the cigarette tax by \$5.
- Possible "goal" of the tax: to raise revenue from those who profit from harming other's health – "evil" cigarette companies.
- But who really pays this tax?

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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.

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CHAPTER SUMMARY

- A price ceiling is a legal maximum on the price of a good. An example is rent control. If the price ceiling is below the eq'm price, it is binding and causes a shortage.
- A price floor is a legal minimum on the price of a good. An example is the minimum wage. If the price floor is above the eq'm price, it is binding and causes a surplus. The labor surplus caused by the minimum wage is unemployment.

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CHAPTER SUMMARY

- A tax on a good places a wedge between the price buyers pay and the price sellers receive, and causes the eq'm quantity to fall, whether the tax is imposed on buyers or sellers.
- The incidence of a tax is the division of the burden of the tax between buyers and sellers, and does not depend on whether the tax is imposed on buyers or sellers.
- The incidence of the tax depends on the price elasticities of supply and demand.

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Price Control and Taxation

- Markets are "good"?
- · Price control is "bad"!
- Homework: Mankiw, Ch. 6, pp.132-134, Problem 2, 7, 11

