

In this chapter, look for the answers to these questions:

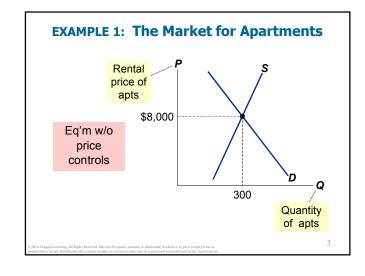
- What are price ceilings and price floors?
 What are some examples of each?
- How do price ceilings and price floors affect market outcomes?
- How do taxes affect market outcomes?
 How do the effects depend on whether the tax is imposed on buyers or sellers?
- What is the incidence of a tax?What determines the incidence?

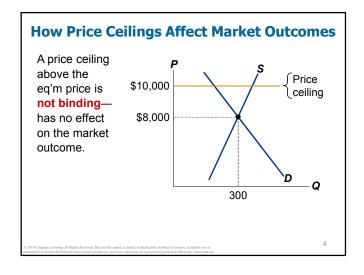
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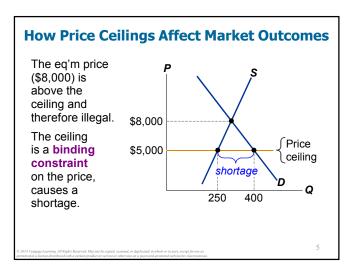
Government Policies That Alter the Private Market Outcome

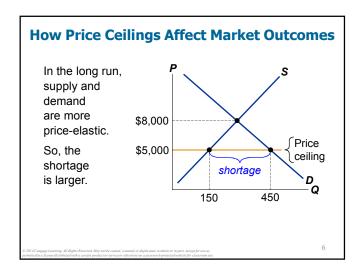
- Price controls
 - Price ceiling: a legal maximum on the price of a good or service Example: rent control
 - Price floor: a legal minimum on the price of a good or service Example: minimum wage
- Taxes
 - The govt can make buyers or sellers pay a specific amount on each unit.

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).





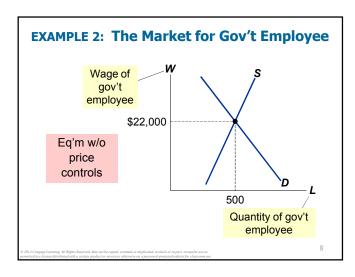


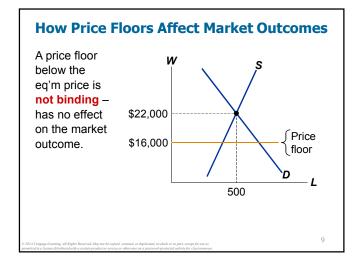


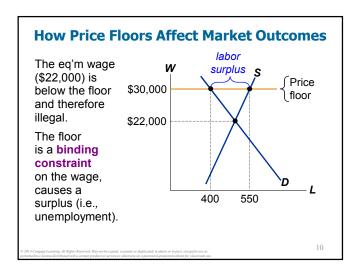
Shortages and Rationing

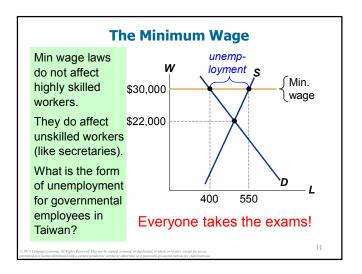
- With a shortage, sellers must ration the goods among buyers.
- Some rationing mechanisms: (1) Long lines
 (2) Discrimination according to sellers' biases
- These mechanisms are often unfair, and inefficient: the goods do not necessarily go to the buyers who value them most highly.
- In contrast, when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

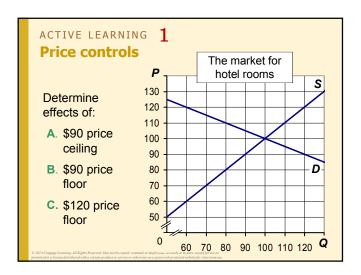
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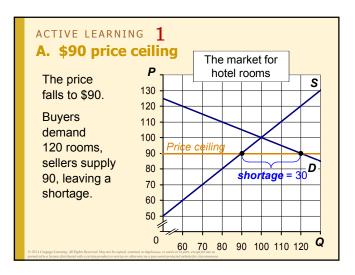


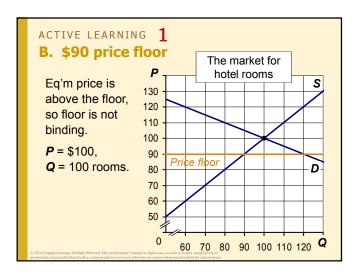


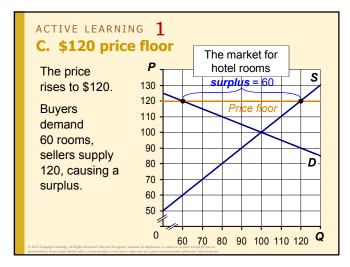












Evaluating Price Controls

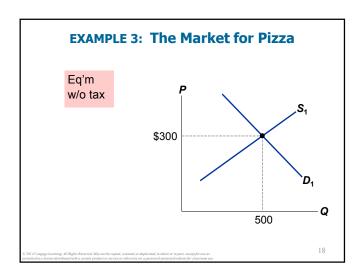
- Recall one of the Ten Principles from Chapter 1: Markets are usually a good way to organize economic activity.
- Prices are the signals that guide the allocation of society's resources. This allocation is altered when policymakers restrict prices.
- Price controls often intended to help the poor, but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

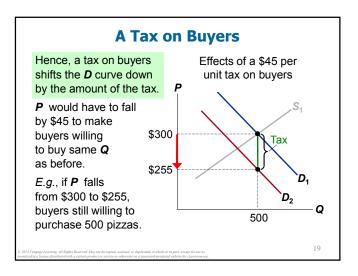
4 Congage Learning. All Rights Reserved. May not be copied, scanned, or duplicated, in whole or in part, except for use as ted in a license distributed with a certain product or serviceor otherwise on a password-protected withite for classroom use Taxes

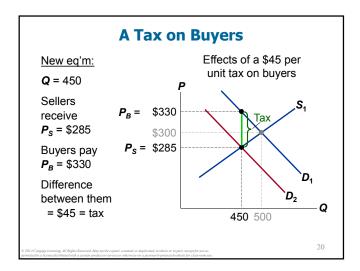
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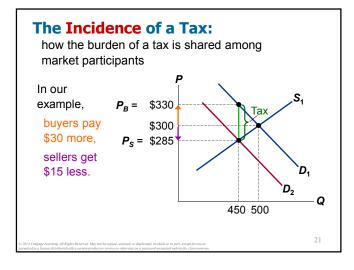
- The govt levies taxes on many goods & services to raise revenue to pay for national defense, public schools, etc.
- The govt can make buyers or sellers pay the tax.
- The tax can be a % of the good's price, or a specific amount for each unit sold.
 - For simplicity, we analyze per-unit taxes only.

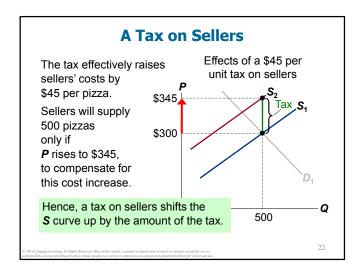
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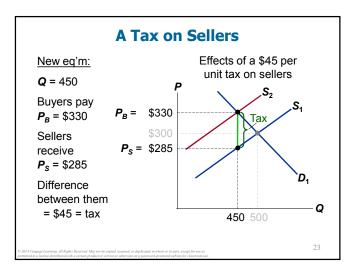


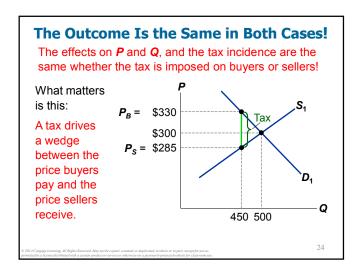


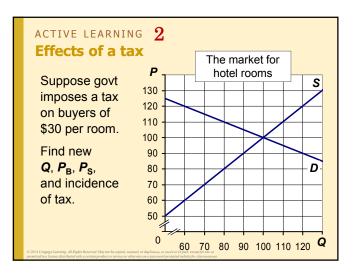


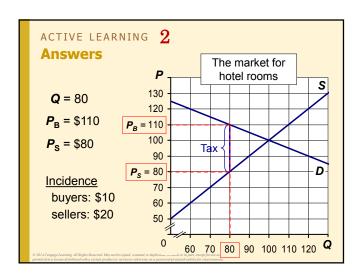


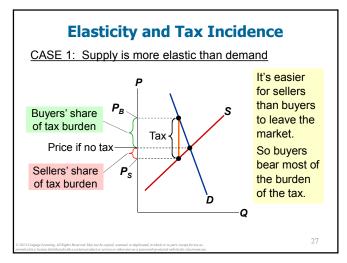


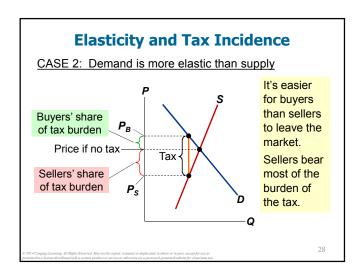












CASE STUDY: Who Pays the Cigarette Tax? 2006: Taiwan's Legislative Yuan increased the cigarette tax by \$5. Goal: raise revenue from those "evil" and wealthy cigarette companies... But who really pays this tax?

CASE STUDY: Who Pays the Cigarette Tax? The market for cigarettes Demand is inelastic. In the short run, Buyers' share supply is elastic. of tax burden Tax Hence. addicted Sellers' share smokers of tax burden pay most of the tax.

ACTIVE LEARNING 3 The 2011 payroll tax cut

- Prior to 2011, the Social Security payroll tax was 6.2% taken from workers' pay and 6.2% paid by employers (total 12.4%).
- The Tax Relief Act (2010) reduces the worker's portion from 6.2% to 4.2% (for 2011 only), but leaves the employer's portion at 6.2%.

QUESTION:

Will the typical worker's take-home pay rise by exactly 2%, more than 2%, or less than 2%? Do any elasticities affect your answer? Explain.

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ACTIVE LEARNING 3

Answers

- As long as labor supply and labor demand both have price elasticity > 0, the tax cut will be shared by workers and employers, i.e., workers' take-home pay will rise less than 2%.
- The answer does NOT depend on whether labor demand is more or less elastic than labor supply.

FOLLOW-UP QUESTION:

Who gets the bigger share of this tax cut, workers or employers? How do elasticities determine the answer?

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ACTIVE LEARNING 3

Answers to follow-up question

- If labor demand is more elastic than labor supply, workers get more of the tax cut than employers.
- If labor demand is less elastic than labor supply, employers get the larger share of the tax cut.

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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.

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 So, it's important for policymakers to apply such policies very carefully.

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SUMMARY

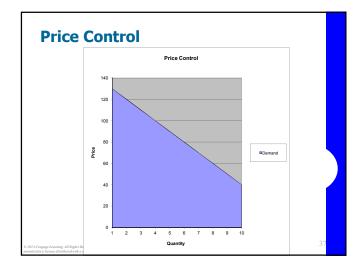
- A price ceiling is a legal maximum on the price of a good. An example is rent control. If the price ceiling is below the eq'm price, it is binding and causes a shortage.
- A price floor is a legal minimum on the price of a good. An example is the minimum wage. If the price floor is above the eq'm price,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

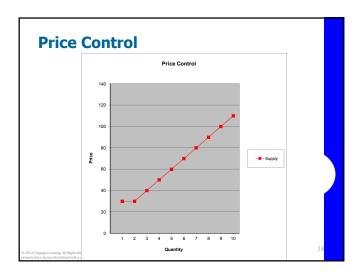
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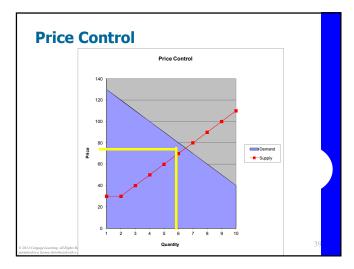
SUMMARY

- 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.129-131,
 Problem 3, 8, 9, 10, 11, 12

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Additional Homework Questions

- True or False. A price ceiling on wheat would cause the price of bread to fall.
- True or False. ASUS computers contain hard drivers made by other manufacturers. If ASUS made its own hard drives, ASUS computers would be cheaper.

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