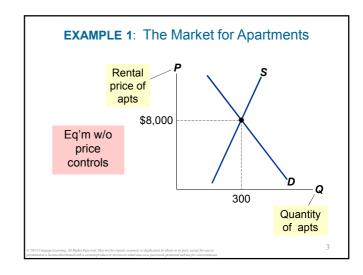


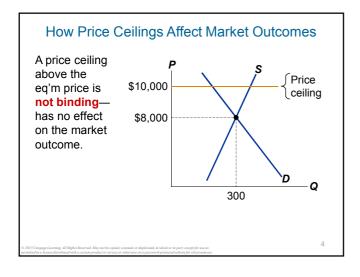
In this chapter, look for the answers to these questions

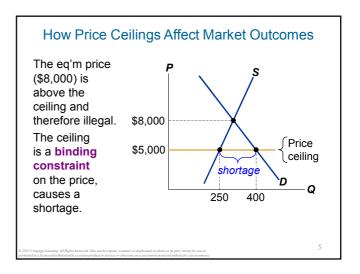
- What are price ceilings and price floors?
 What are some examples of each?
- How do price ceilings and price floors affect market outcomes?
- How do taxes affect market outcomes?
 How do the effects depend on whether the tax is imposed on buyers or sellers?
- What is the incidence of a tax?What determines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

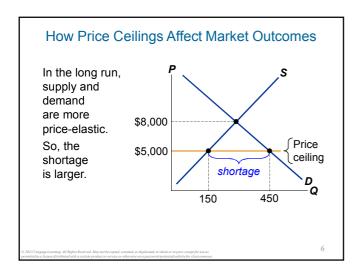
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Government Policies That Alter the Private Market Outcome Price controls Price ceiling: a legal maximum on the price of a good or service Example: rent control Price floor: a legal minimum on the price of a good or service Example: minimum wage Taxes 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).





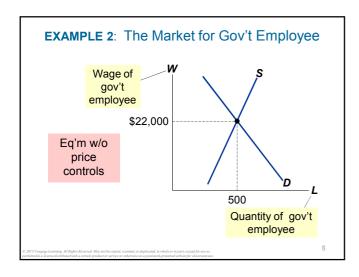


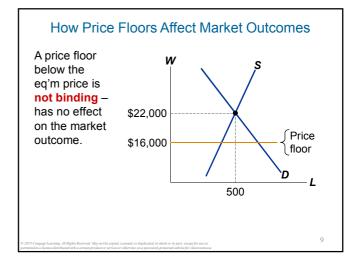


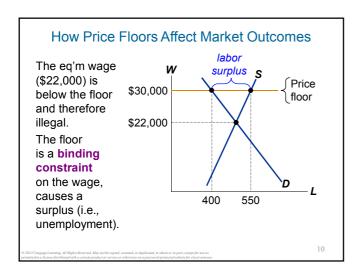
Shortages and Rationing

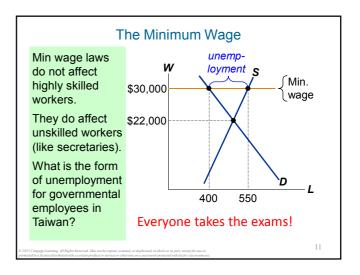
- With a shortage, sellers must ration the goods among buyers.
- Some rationing mechanisms: (1) Long lines
 (2) Discrimination according to sellers' biases
- These mechanisms are often unfair, and inefficient: the goods do not necessarily go to the buyers who value them most highly.
- In contrast, when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

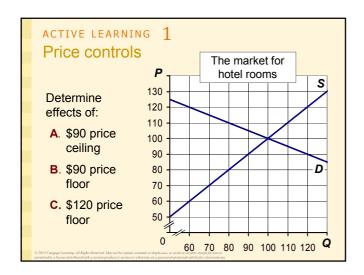
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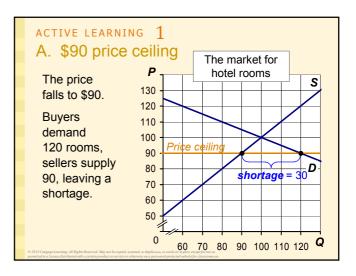


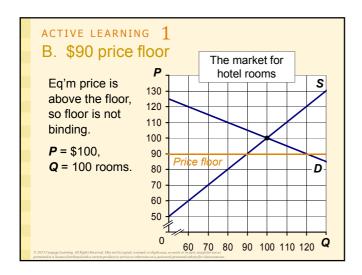


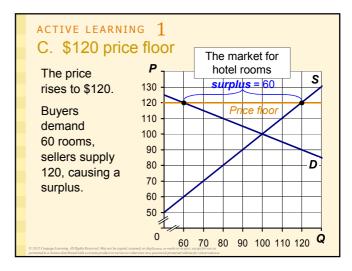












Evaluating Price Controls

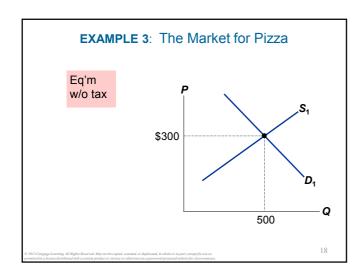
- Recall one of the Ten Principles from Chapter 1: Markets are usually a good way to organize economic activity.
- Prices are the signals that guide the allocation of society's resources. This allocation is altered when policymakers restrict prices.
- Price controls often intended to help the poor, but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

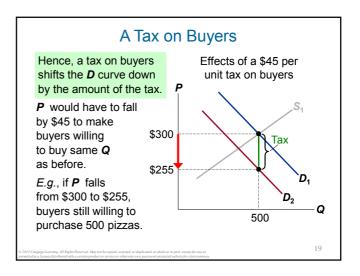
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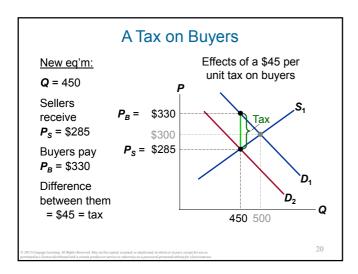
Taxes

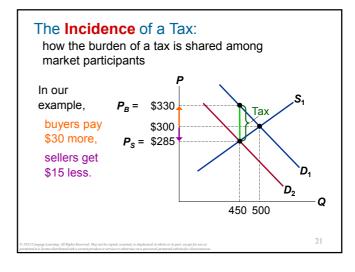
- The govt levies taxes on many goods & services to raise revenue to pay for national defense, public schools, etc.
- The govt can make buyers or sellers pay the tax.
- The tax can be a % of the good's price, or a specific amount for each unit sold.
 - For simplicity, we analyze per-unit taxes only.

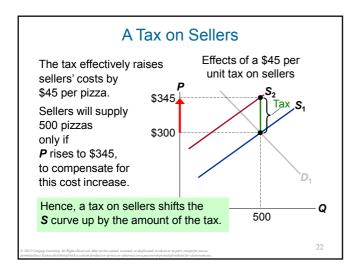
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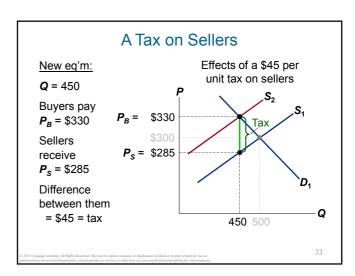


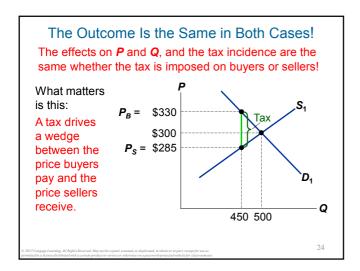


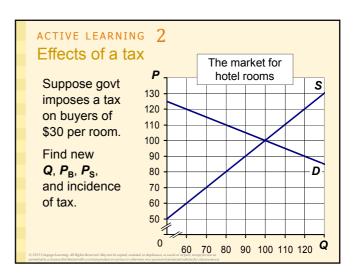


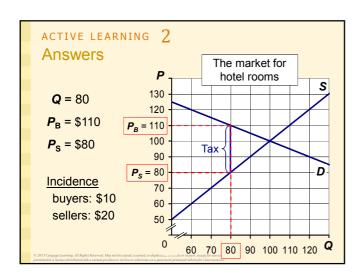


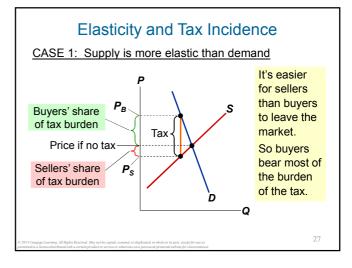


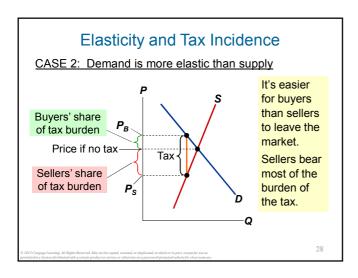












CASE STUDY: Who Pays the Cigarette Tax? - 2006: Taiwan's Legislative Yuan increased the cigarette tax by \$5. - Goal: raise revenue from those "evil" and wealthy cigarette companies... - But who really pays this tax?

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

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) reduced the worker's portion from 6.2% to 4.2% in 2011, but left the employer's portion at 6.2%.

QUESTION:

Should this change have increased the typical worker's take-home pay 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.
- So, it's important for policymakers to apply such policies very carefully.

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Summary

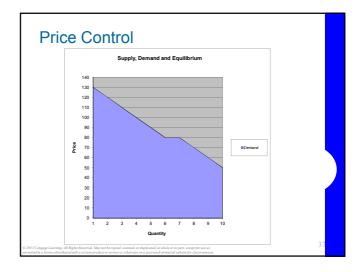
- A price ceiling is a legal maximum on the price of a good. An example is rent control. If the price ceiling is below the eq'm price, it is binding and causes a shortage.
- A price floor is a legal minimum on the price of a good. An example is the minimum wage. If the price floor is above the eq'm price,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

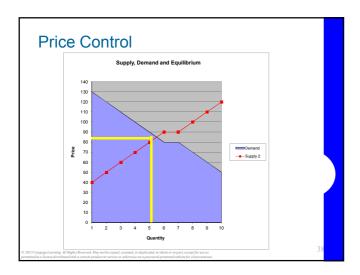
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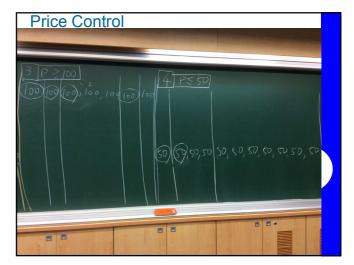
Summary

- 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,Problem 3, 5, 7, 8, 9, 10

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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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