

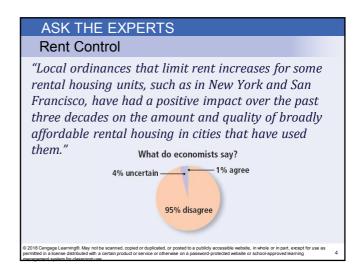
Look for the answers to these questions:

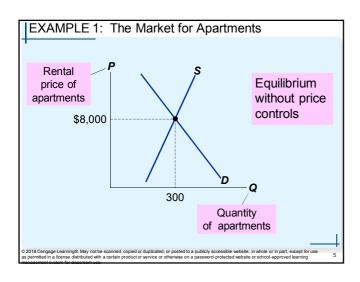
- What are price ceilings and price floors?
 What are some examples of each?
- How do price ceilings and price floors affect market outcomes?
- How do taxes affect market outcomes?
 How do the effects depend on whether the tax is imposed on buyers or sellers?
- What is the incidence of a tax?
 What determines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

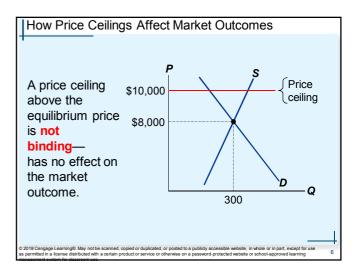
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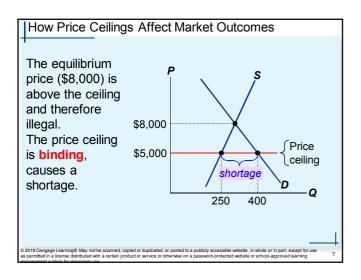
Government Policies That Alter the Private Market Outcome

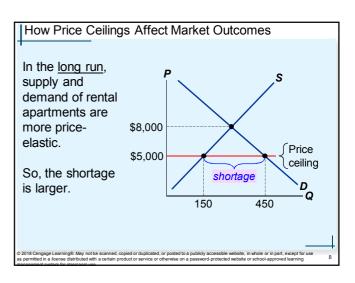
 Price controls
 Price ceiling: legal maximum on the price at which a good can be sold
 Rent-control laws
 Price floor: legal minimum on the price at which a good can be sold
 Minimum wage laws
 Taxes: government can make buyers or sellers pay a specific amount on each unit



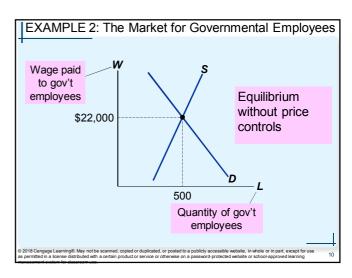


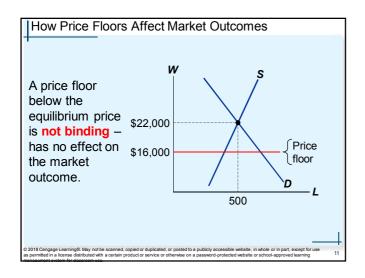


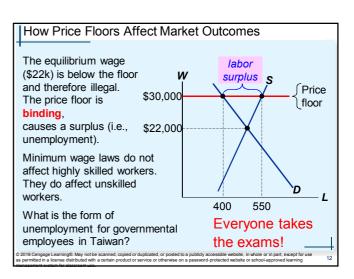


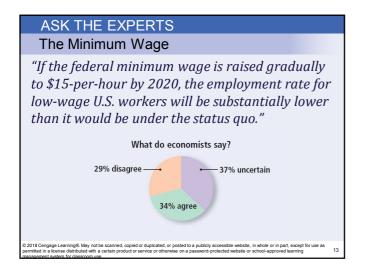


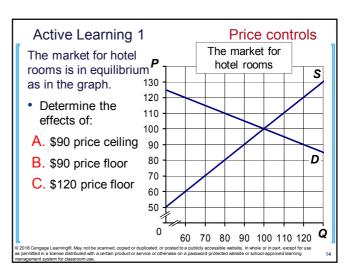


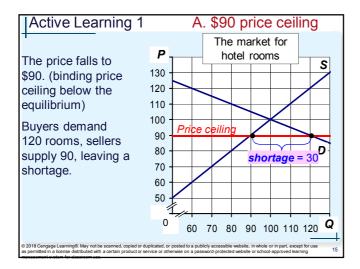


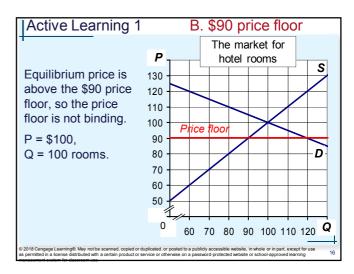


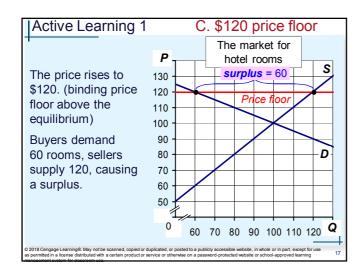














Evaluating Price Controls

- Governments can sometimes improve market outcomes
 - -Want to use price controls
 - · Because of unfair market outcome
 - · Aimed at helping the poor
 - -Often hurt those they are trying to help
 - -Other ways of helping those in need
 - · Rent subsidies
 - · Wage subsidies (earned income tax credit)

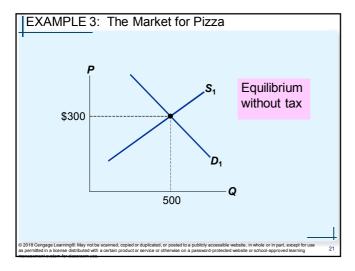
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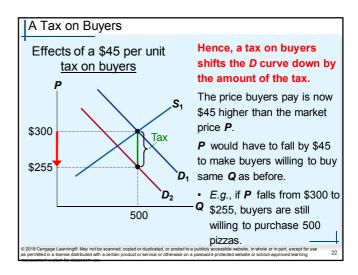


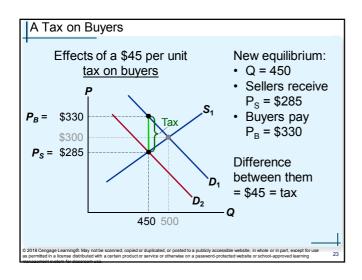
Taxes

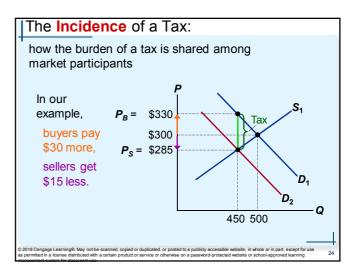
- · Government uses taxes
 - -To raise revenue for public projects
 - · Roads, schools, and national defense
- Tax incidence
 - Manner in which the burden of a tax is shared among participants in a market
 - The government can make the seller or the buyer to pay the tax

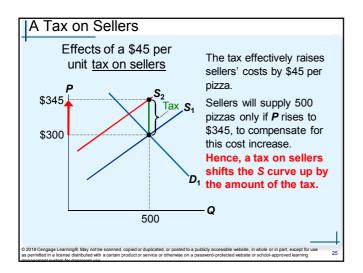
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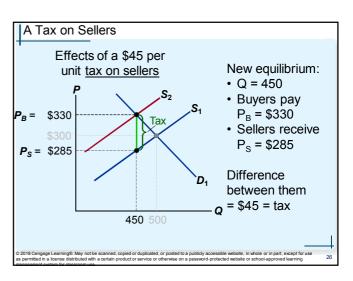


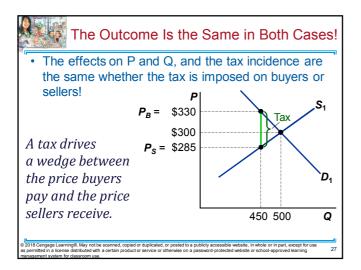


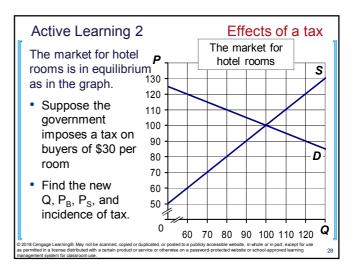


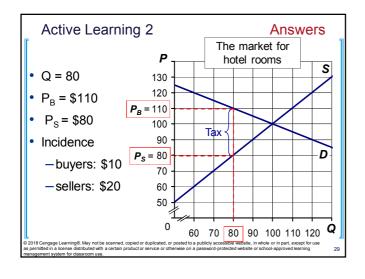


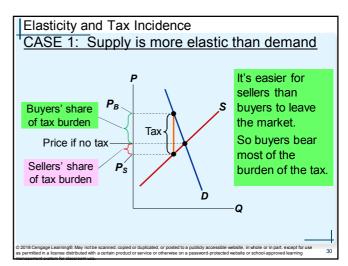


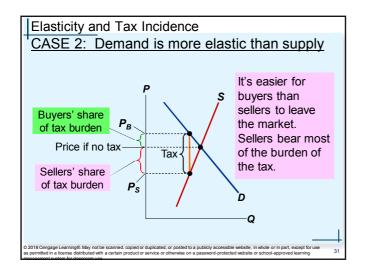


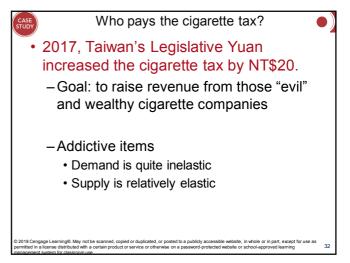


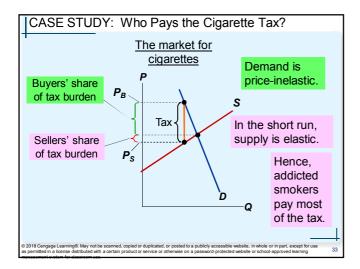












Active Learning 3 The 2011 payroll tax cut

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%.

- 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.
- <u>FOLLOW-UP QUESTION</u>: 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

- 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' takehome 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:

- 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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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 equilibrium 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 equilibrium price, it is binding and causes a surplus. The labor surplus caused by the minimum wage is unemployment.

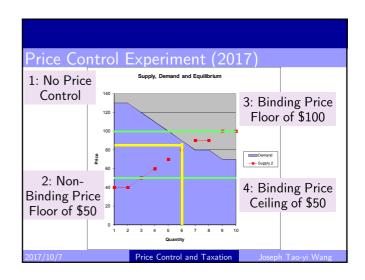
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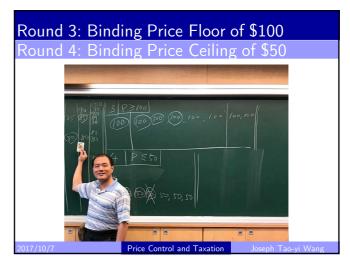
Summary

- A tax on a good places a wedge between the price buyers pay and the price sellers receive, and causes the equilibrium 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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Chapter 6: Price Control and Taxation

- Markets are good? Price control is bad!
- ▶ Homework:
 - Mankiw, Ch. 6, Problem 3, 5, 7, 8, 9, 10
- ▶ Challenge Questions:
 - ▶ 2009 (Multiple Choice Q11)
 - ▶ 2010 (True/False Q6-Q8)
 - ▶ 2012 (True/False Q3-Q4)
 - ▶ 2013 (True/False Q6-7)
 - ▶ 2016 Essay C

217/10/7

Price Control and Taxation

oseph Tao-vi Wang

Chapter 6: Price Control and Taxation

- ▶ Additional 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.

10/7 Price Control and Tax

Joseph Tao-yi Wang