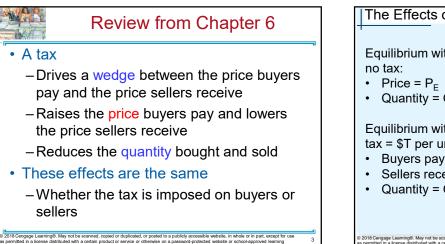
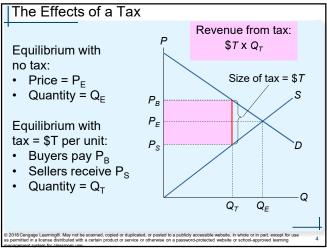


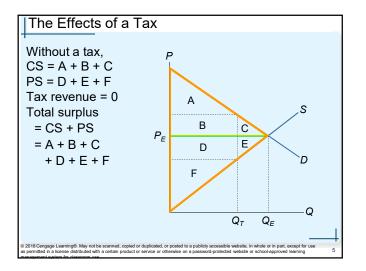
Look for the answers to these questions:

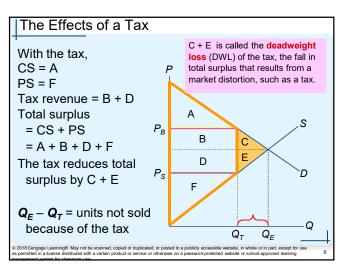
- How does a tax affect consumer surplus, producer surplus, and total surplus?
- What is the deadweight loss of a tax?
- What factors determine the size of this deadweight loss?
- How does tax revenue depend on the size of the tax?

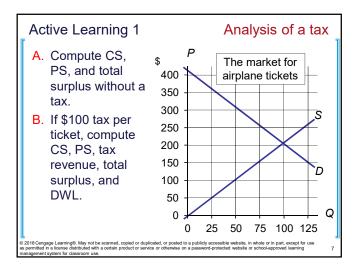
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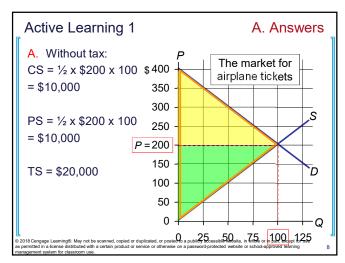


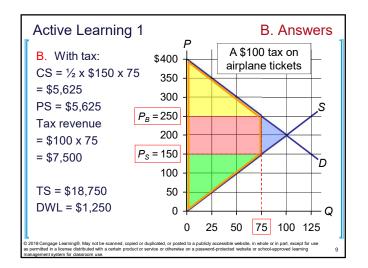


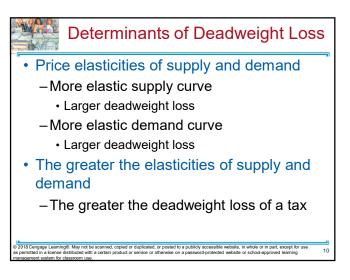


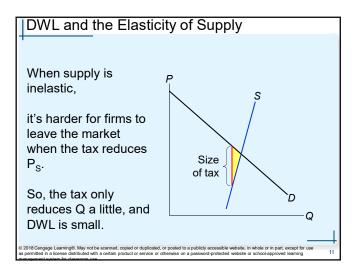


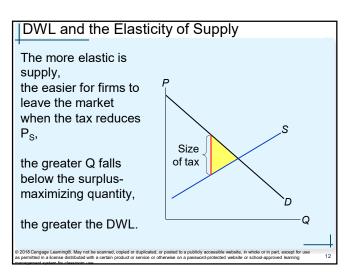


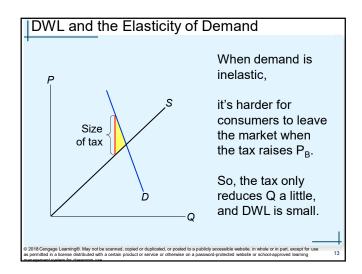


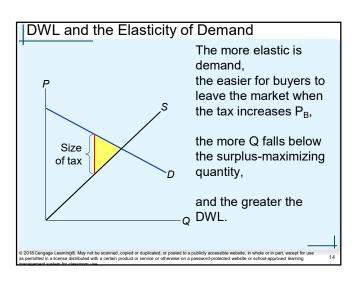


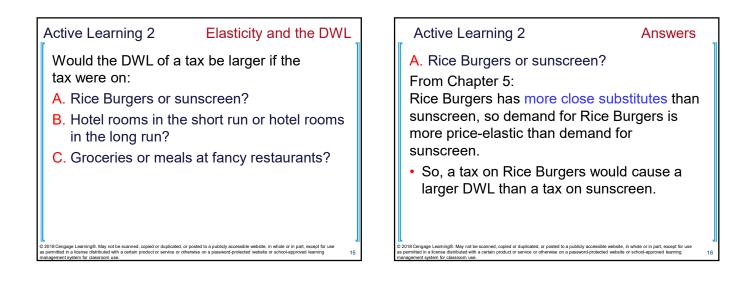


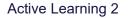












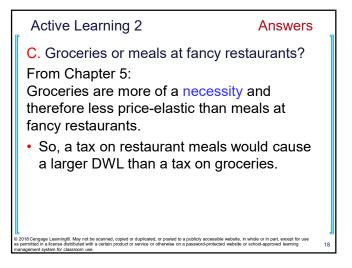
Answers

- B. Hotel rooms in the short run or hotel rooms in the long run?
- From Chapter 5:

The price elasticities of demand and supply for hotel rooms are larger in the long run than in the short run.

• So, a tax on hotel rooms would cause a larger DWL in the long run than in the short run.

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Active Learning 3

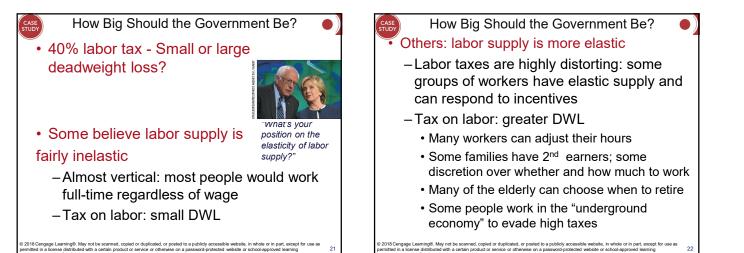
Discussion question

The government must raise tax revenue to pay for schools, police, etc.

To do this, it can either tax groceries or meals at fancy restaurants.

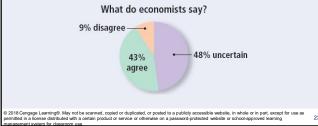
• Which should it tax?

How Big Should the Government Be?
 A bigger government
 Provides more services, but requires higher taxes, which cause DWLs
 The larger the DWL from taxation, the greater the argument for smaller government
 Tax on labor income - especially important
 Biggest source of government revenue
 Marginal tax rate: about 40%
 How big is the DWL?

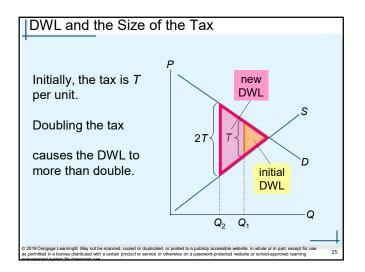


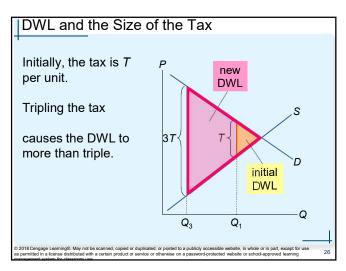
ASK THE EXPERTS The Laffer Curve

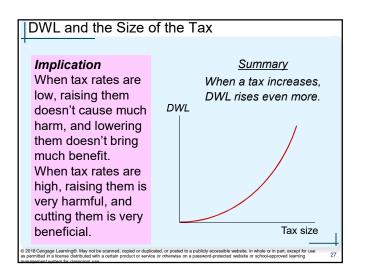
"A cut in federal income tax rates in the United States right now would lead to higher national income within five years than without the tax cut."

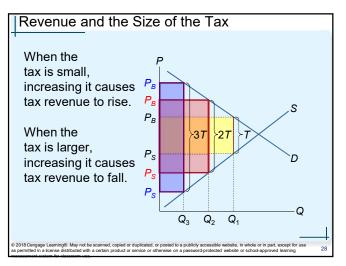


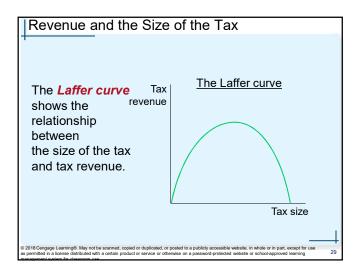
Effects of Changing the Size of the Tax • As the tax increases – Deadweight loss increases – Deadweight loss increases . Even more rapidly than the size of the tax – Tax revenue . Increases initially . Then decreases . The higher tax: drastically reduces the size of the market

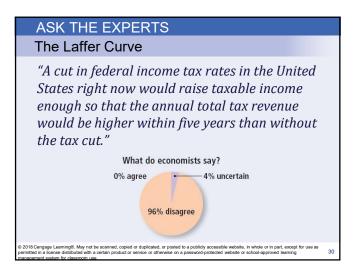












Summary

- A tax on a good reduces the welfare of buyers and sellers. This welfare loss usually exceeds the revenue the tax raises for the govt.
- The fall in total surplus (consumer surplus, producer surplus, and tax revenue) is called the deadweight loss (DWL) of the tax.
- A tax has a DWL because it causes consumers to buy less and producers to sell less, thus shrinking the market below the level that maximizes total surplus.

Summary

- The price elasticities of demand and supply measure how much buyers and sellers respond to price changes. Therefore, higher elasticities imply higher DWLs.
- An increase in the size of a tax causes the DWL to rise even more.
- An increase in the size of a tax causes revenue to rise at first, but eventually revenue falls because the tax reduces the size of the market.

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Chapter 8: The Costs of Taxation

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- Welfare Analysis of Taxation
- Deadweight Loss (Harburger Triangle)
- Homework:
- Mankiw, Ch.8, Problem 2, 4, 5, 8, 10

Chapter 8: Challenge Questions/ex-Midterm 2007 - Essay Q3, Q4 2008 - Essay B (Multi-Choice Q8) 2009 - Essay A (Multi-Choice Q12) 2010 - Essay B 2012 - Essay A10-A12, B (True/False Q7-Q8) 2013 - Essay C, D (True/False Q9-Q10) 2014 - Essay A 2017 - Essay A