

Look for the answers to these questions:

- What is consumer surplus? How is it related to the demand curve?
- What is producer surplus? How is it related to the supply curve?
- Do markets produce a desirable allocation of resources? Or could the market outcome be improved upon?

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Welfare Economics

- Allocation of resources refers to:
 - How much of each good is produced
 - -Which producers produce it
 - -Which consumers consume it
- Welfare economics
 - Studies how the allocation of resources affects economic well-being

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- A buyer's willingness to pay for a good
 - Maximum amount the buyer will pay for that good
 - -How much the buyer values the good

name	WTP	Example:
Anthony	\$250	4 buyers' WTP
Kenny	175	for an iPad
Quan	300	

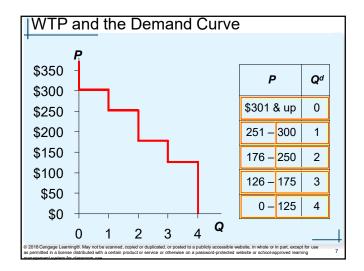
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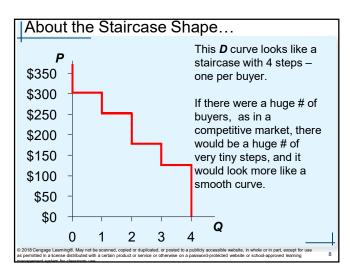
John

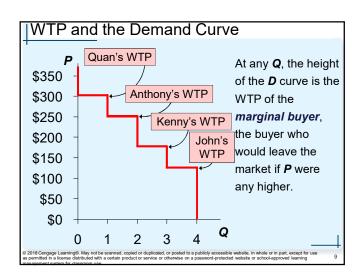
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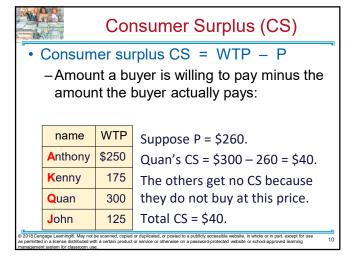
WTP and the Demand Curve Q: If price of iPad is \$200, who will buy an iPad, and what is quantity demanded? A: Anthony & Quan will buy an name WTP iPad, Kenny & John will not. **A**nthony \$250 Hence, $Q^d = 2$ Kenny 175 when P = \$200. 300 Quan John 125 gage Learning®. May not be scanned, copied or duplicated, or posted to a publicly accessible website, in whole or in part, except for use in a license distributed with a certain product or service or otherwise on a password-protected website or school-approved learning

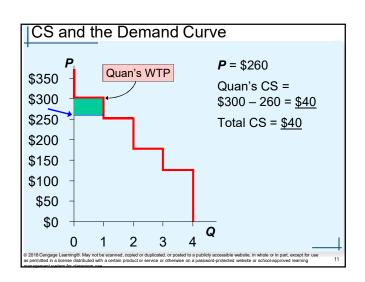
	V	VTP a	and the	Demand Cu	rve
Derive the demand schedule:		P (price of iPad)	who buys	Q ^d	
		\$301 & up	nobody	0	
WITD		251 – 300	Quan	1	
	name	WTP	176 – 250	Anthony, Quan	2
	Anthony	\$250	170 - 250	,	
	Kenny	175	126 – 175	Kenny, Anthony, Quan	3
	Quan	300	0 – 125	John, Kenny,	
	J ohn	125		Anthony, Quan	4
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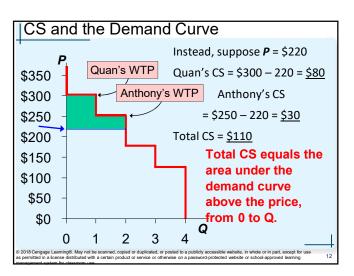


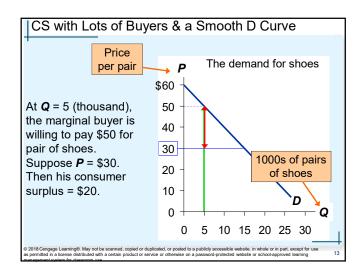


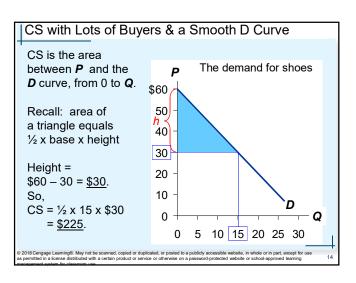


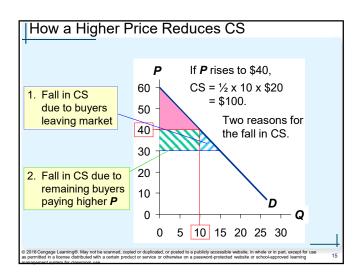


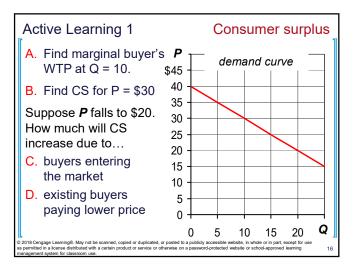


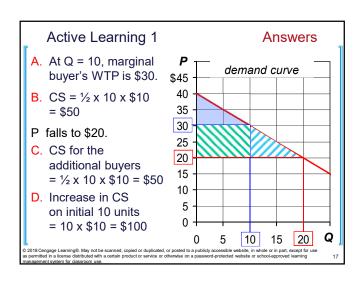


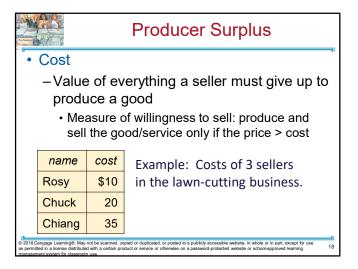


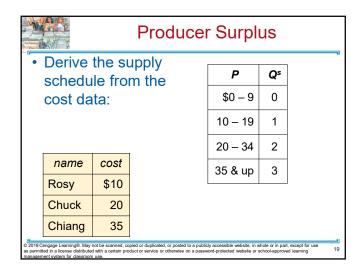


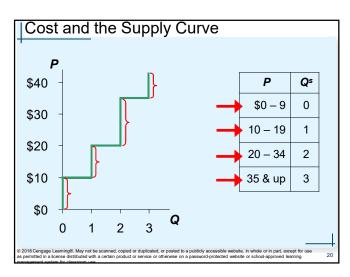


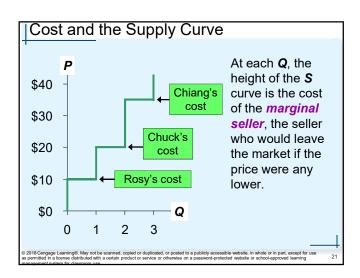


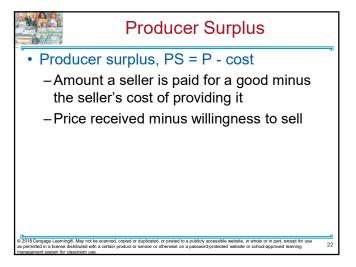


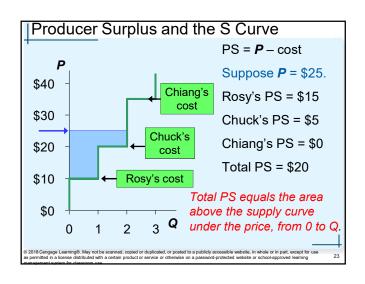


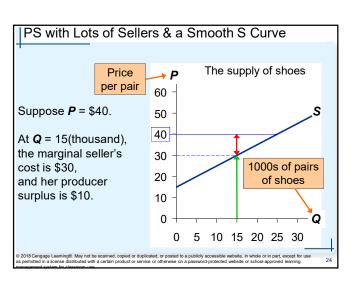


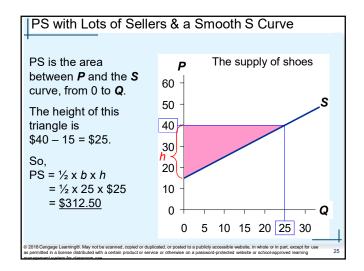


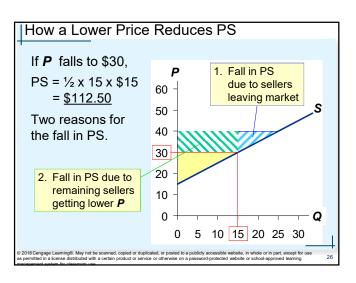


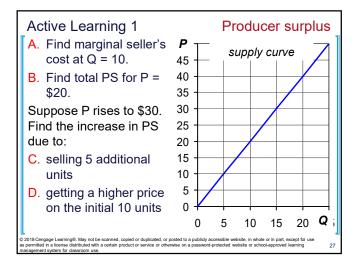


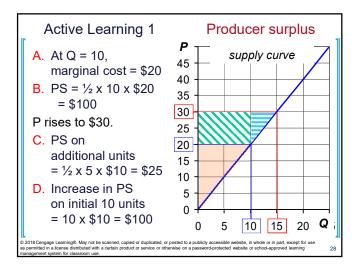






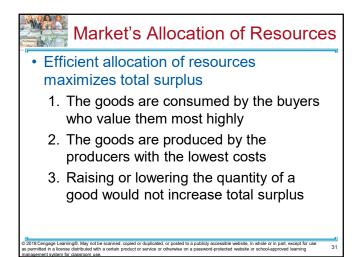


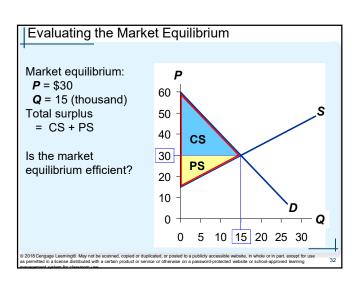


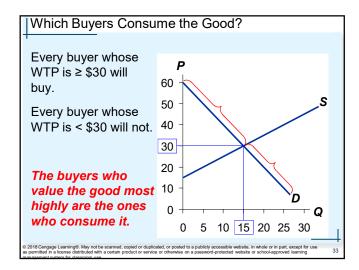


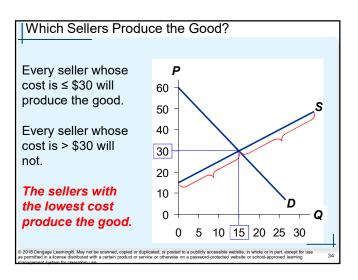


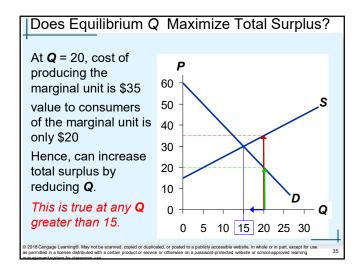


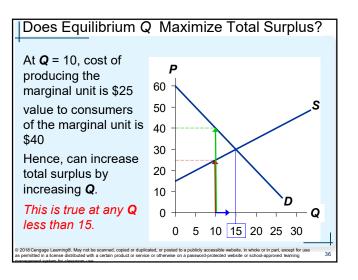












Adam Smith and the Invisible Hand Passages from The Wealth of Nations, 1776

"Man has almost constant occasion for the help of his brethren, and it is vain for him to expect it from their benevolence only. He will be more likely to prevail if he can interest their self-love in his favor, and show them that it is for their own advantage to do for him what he requires of them...



Adam Smith, 1723-1790

It is not from the benevolence of the butcher, the brewer, or the baker that we expect our dinner, but from their regard to

their own interest...

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Adam Smith and the Invisible Hand
Passages from The Wealth of Nations, 1776

"Every individual peither intends to

"Every individual...neither intends to promote the public interest, nor knows how much he is promoting it....

He intends only his own gain, and he is in this, as in many other cases, led by an invisible hand to promote an end which was no part of his intention.



Adam Smith, 1723-1790

Nor is it always the worse for the society that it was no part of it. By pursuing his own interest he frequently promotes that of the society more effectually than

when he really intends to promote it."

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Market Efficiency

- · Adam Smith's invisible hand
 - Takes all the information about buyers and sellers into account
 - Guides everyone in the market to the best outcome
 - Economic efficiency
- Free markets
 - Best way to organize economic activity

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Market Efficiency & Market Failure Market failures Market power: a single buyer or seller (small group) control market prices Markets are inefficient Externalities: decisions of buyers and sellers affect people who are not participants in the market at all Inefficient equilibrium - from the standpoint of society as a whole

Consumer Surplus: buyers' willingness to pay for a good minus the amount they actually pay Measures the benefit buyers get from participating in a market Area below the D curve and above P Producer Surplus: amount sellers receive for their goods minus their costs of production Measures the benefit sellers get from participating in a market Area below P and above the S curve

Summary

- An allocation of resources that maximizes total surplus is said to be efficient
 - Policymakers are concerned with the efficiency, as well as the equality, of economic outcomes.
- Equilibrium of **S** and **D** maximizes total surplus
 - The invisible hand of the marketplace leads buyers and sellers to allocate resources efficiently.
- Markets do not allocate resources efficiently in the presence of market failures (market power or externalities)

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Chapter 7: Efficiency and Welfare

- ▶ Consumer Surplus + Producer Surplus
- ▶ = Total Surplus (maximized at Equilibrium)
- ▶ Efficiency vs. Equality
- ▶ Homework:
 - ▶ Mankiw, Ch.7, Problem 6, 7, 9-11

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Chapter 7: Efficiency and Welfare

- ▶ Challenge Questions:
 - ▶ 2008 (Multiple Choice Q6-Q7)
 - ▶ 2010 Essay C
 - ▶ 2013 (True/False Q8)
 - ▶ 2017 Essay B3
- ▶ Additional Questions:
 - ▶ <u>True</u> or <u>False</u>. If consumers buy 1,000 heads of lettuce per week, and if the price of lettuce falls by \$1 per head, then the consumer surplus will increases by \$1,000.

2018/10/5

Efficiency and Welfare

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