

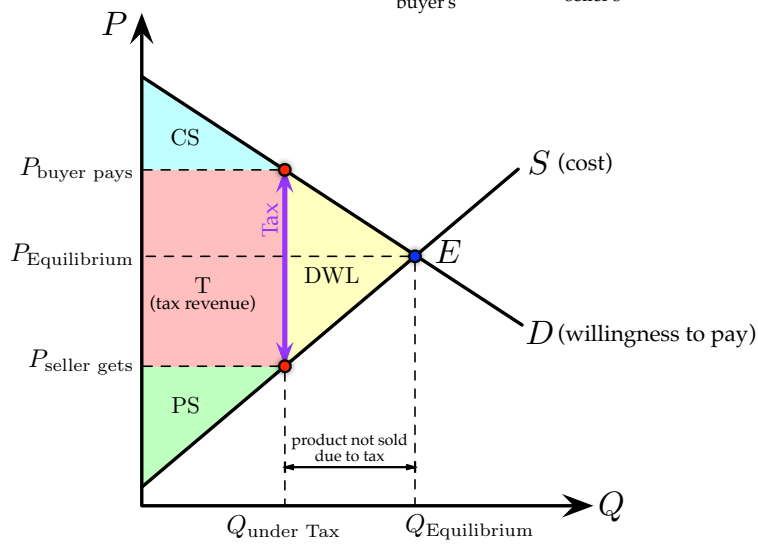
HANDOUT 5

1 Reminder

- Any comments please use the *Feedback Survey* (on my website, haochehsu.com, under *Teaching*)
- Homework Ch8: due next Monday (5/29) at 11:00 am.

2 Key Concepts

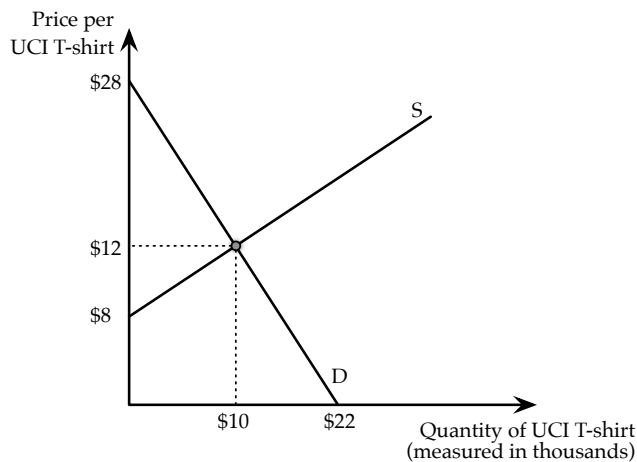
- Consumer surplus (CS) = willingness to pay – price (P)
- Producer surplus (PS) = price (P) – Cost (C)
- TS (Total surplus) = CS + PS + T (Tax) = $\underbrace{\text{willingness to pay}}_{\text{buyer's}} - \underbrace{\text{cost}}_{\text{seller's}} - \text{DWL (deadweight loss)}$



3 Exercises

1. A simultaneous increase in both the demand for tablets and the supply of tablets would imply that
 - (a) both the value of tablets to consumers and the cost of producing tablets has increased.
 - (b) the value of tablets to consumers has decreased, and the cost of producing tablets has increased.
 - (c) both the value of tablets to consumers and the cost of producing tablets has decreased.
 - (d) the value of tablets to consumers has increased, and the cost of producing tablets has decreased.
2. Welfare economics implies that the equilibrium price of a product is considered to be the best price because it
 - (a) is not socially desirable.
 - (b) minimizes costs and maximizes output.
 - (c) maximizes the combined welfare of buyers and sellers.
 - (d) minimizes the level of welfare payments.

3. Optimal weather conditions in *Orange County* lead to a plentiful orange harvest, consequently driving down the prices of oranges and orange juice. As a result, the consumer surplus in the market for oranges
- (a) decreases, and the consumer surplus in the market for red wine decreases.
 - (b) decreases, and the consumer surplus in the market for red wine increases.
 - (c) increases, and the consumer surplus in the market for red wine decreases.
 - (d) increases, and the consumer surplus in the market for orange juice increases.
4. If a tax shifts the demand curve upward,
- (a) we can infer that the tax was levied on both buyers and sellers of the good.
 - (b) we can infer that the tax was levied on buyers of the good.
 - (c) we can infer that the tax was levied on sellers of the good.
 - (d) we cannot infer anything because the shift described is not consistent with a tax.
5. James purchases a ring for \$1,900 and his consumer surplus is \$100. How much is James willing to pay for the ring?
- (a) 1,900
 - (b) 1,800
 - (c) 2,000
 - (d) 100
6. The market for UCI T-shirts is in equilibrium at 10,000 per year, at a price of \$12 per T-shirt.



- Given this information, the value of consumer surplus is _____ and the value of producer surplus is _____. (b)
- (a) \$50,000; \$50,000
 - (b) \$80,000; \$20,000
 - (c) \$140,000; \$120,000
 - (d) \$160,000; \$40,000

7. If a consumer places a value of \$13 on a particular good and if the price of the good is \$16, then the
- (a) market is not a competitive market.
 - (b) consumer enjoys consumer surplus if he or she buys the good.
 - (c) price of the good will fall due to market forces.
 - (d) consumer does not purchase the good.
8. The size of a tax and the deadweight loss that results from the tax are
- (a) independent of each other.
 - (b) negatively related.
 - (c) positively related.
 - (d) equal to each other.
9. A tax of \$0.25 is imposed on each bag of potato chips that is sold. The tax decreases producer surplus by \$600 per day, generates tax revenue of \$1,220 per day, and decreases the equilibrium quantity of potato chips by 120 bags per day. The tax
- (a) decreases consumer surplus by \$645 per day.
 - (b) decreases the equilibrium quantity from 6,000 bags per day to 5,880 bags per day.
 - (c) decreases total surplus from \$3,000 to \$1,800 per day.
 - (d) creates a deadweight loss of \$15 per day.
10. In Mike's Bakery, each croissant costs \$1.5 to make. If Mike sells 20 of these croissants and achieves a producer surplus of \$40, then the selling price of each croissant must be
- (a) \$3.5 each.
 - (b) \$2 each.
 - (c) \$3 each.
 - (d) \$1.5 each.
11. When a country is on the downward-sloping side of the Laffer curves, a cut in the tax rate will
- (a) decrease tax revenue and decrease the deadweight loss.
 - (b) decrease tax revenue and increase the deadweight loss.
 - (c) increase tax revenue and decrease the deadweight loss.
 - (d) increase tax revenue and increase the deadweight loss.
12. Which of the following quantities decrease in response to a tax on a good?
- (a) The equilibrium quantity in the market for the good, the effective price of the good paid by buyers, and consumer surplus.
 - (b) The equilibrium quantity in the market for the good, producer surplus, and the well-being of buyers of the good.
 - (c) The effective price received by sellers of the good, the wedge between the effective price paid by buyers and the effective price received by sellers, and consumer surplus.
 - (d) It depends on whether the tax is levied on buyers or on sellers.