Chapter 8—Application: The Costs of Taxation

MULTIPLE CHOICE

- 1. A tax on a good
 - a. raises the price buyers pay and lowers the price sellers receive.
 - b. raises both the price buyers pay and the price sellers receive.
 - c. lowers both the price buyers pay and the price sellers receive.
 - d. lowers the price buyers pay and raises the price sellers receive.

ANS: A DIF: Challenging REF: 163

- 2. When a good is taxed
 - a. both buyers and sellers are worse off.
 - b. only buyers are worse off because they ultimately pay the majority of the tax.
 - c. only sellers are worse off because the government holds them responsible for collecting the tax.
 - d. neither buyers nor sellers are worse off since tax revenue is used to provide goods and services that would otherwise not be provided by the market.

ANS: A DIF: Average REF: 163

- 3. A tax placed on a product causes the price the buyer pays
 - a. and the price the seller receives to be higher.
 - b. and the price the seller receives to be lower.
 - c. to be lower and the price the seller receives to be higher.
 - d. to be higher and the price the seller receives to be lower.

ANS: D DIF: Challenging REF: 163

- 4. A tax placed on kite buyers will shift
 - a. demand upward, causing both the price received by sellers and the equilibrium quantity to fall
 - b. demand downward, causing both the price received by sellers and the equilibrium quantity to fall
 - c. supply downward, causing the price received by sellers to fall and equilibrium quantity to rise.
 - d. supply upward, causing the price received by sellers to rise and equilibrium quantity to fall.

ANS: B DIF: Challenging REF: 163

- 5. Buyers of a product will pay the majority of a tax placed on a product when
 - a. the tax is placed on the seller of the product.
 - b. the demand is more elastic than supply.
 - c. supply is more elastic than demand.
 - d. the tax is placed on the buyer of the product.

ANS: C DIF: Challenging REF: 163

- 6. If a tax is imposed on a market with elastic demand and inelastic supply,
 - a. buyers will bear most of the burden of the tax.
 - b. sellers will bear most of the burden of the tax.
 - c. the burden of the tax will be shared equally between buyers and sellers.

- d. it is impossible to determine how the burden of the tax will be shared. DIF: Challenging REF: 163 ANS: B 7. Whether a tax is levied on the buyer or seller of the good does not matter because a. sellers always bear the full burden of the tax. b. buyers always bear the full burden of the tax. c. buyers and sellers will share the burden of the tax. d. sellers bear the full burden if the tax is levied on them, and buyers bear the full burden if the tax is levied on them. ANS: C DIF: Average REF: 163 8. A tax imposed on a market with an inelastic demand and an elastic supply will cause a. sellers to pay the majority of the tax. b. buyers to pay the majority of the tax. c. the tax burden to be equally divided between buyers and sellers. d. the tax burden to be divided, but it cannot be determined how. ANS: B DIF: Challenging REF: 163 9. A tax placed on chocolate will a. reduce the equilibrium price of chocolate and increase the equilibrium quantity. b. increase the equilibrium price of chocolate and reduce the equilibrium quantity. c. increase the equilibrium price of chocolate and increase the equilibrium quantity. d. reduce the equilibrium price of chocolate and reduce the equilibrium quantity. ANS: B DIF: Challenging REF: 163 10. A \$2.00 tax placed on the sellers of potting soil will shift the supply curve a. right (downward) by exactly \$2.00. b. left (upward) by less than \$2.00. c. left (upward) by exactly \$2.00. d. right (downward) by less than \$2.00. DIF: Average ANS: C REF: 163 11. Which of the following is the most correct statement about tax burdens? a. A tax burden falls most heavily on the side of the market that is elastic. b. A tax burden falls most heavily on the side of the market that is inelastic. c. A tax burden falls most heavily on the side of the market that is closer to unit elastic. d. A tax burden is distributed independently of relative elasticities of supply and demand. ANS: B DIF: Challenging REF: 163

- 12. When a tax on a good is enacted,
 - a. buyers and sellers share the burden of the tax regardless of who it is levied on.
 - b. buyers always bear the full burden of the tax.
 - c. sellers always bear the full burden of the tax.
 - d. sellers bear the full burden if the tax is levied on them, but buyers bear the full burden if the tax is levied on them.

ANS: A DIF: Challenging REF: 163

- 13. Total tax revenue received by government can be expressed as
 - a. T/Q.

- b. T + O.
- c. T(Q).
- d. T Q.

ANS: C DIF: Average REF: 163

- 14. The benefit from a tax is measured by the
 - a. benefit received by those people who gain from government's expenditure of the tax revenue.
 - b. cost of collecting (administering) the tax.
 - c. interest saved because the government did not borrow the funds.
 - d. government's surplus, which is tax revenue minus government expenditures.

ANS: A DIF: Average REF: 163

- 15. When the government places a tax on a product
 - a. the cost of the tax to buyers and sellers will be less than the revenue raised from the tax by the government.
 - b. the cost of the tax to buyers and sellers will equal the revenue raised from the tax by the government.
 - c. the cost of the tax to buyers and sellers exceeds the revenue raised from the tax by the government.
 - d. without additional information, such as the elasticity of demand for this product, it is impossible to compare tax cost with tax revenue.

ANS: C DIF: Challenging REF: 163

- 16. When a tax is imposed on a good we know that the losses to buyers and sellers
 - a. are equal to the revenue raised by the government.
 - b. are less than the revenue raised by the government.
 - c. exceed the revenue raised by the government.
 - d. cannot be compared to the tax revenue raised by the government since the amount of the tax will vary from good to good.

ANS: C DIF: Challenging REF: 163

- 17. Deadweight loss measures the
 - a. loss in a market to buyers and sellers that is not offset by an increase in government revenue.
 - b. loss in revenue to the government when buyers choose to buy less of the product.
 - c. loss of efficiency in a market as a result of government intervention.
 - d. lost revenue to businesses because of higher prices to consumers from the tax.

ANS: A DIF: Average REF: 162

- 18. A tax has a deadweight loss because
 - a. it induces the government to spend more.
 - b. it induces buyers to consume less and sellers to produce less.
 - c. it causes a disequilibrium in the market.
 - d. the loss to buyers is greater than the loss to sellers.

ANS: B DIF: Average REF: 162

- 19. When evaluating the size of the deadweight loss due to a tax we know that the
 - a. greater the elasticities of supply and demand, the greater the deadweight loss.
 - b. smaller the elasticities of supply and demand, the greater the deadweight loss.

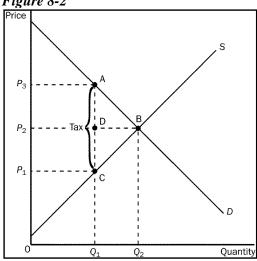
- c. smaller the decrease in both quantity demanded and quantity supplied, the greater the deadweight loss.
- d. primary factor that determines the size of the deadweight loss in the percentage the tax is of price.

ANS: A DIF: Average REF: 162

- 20. Assume that the demand for pretzels is relatively inelastic and that the demand for potato chips is relatively elastic. If the same percentage tax were placed on both goods, the tax on which product would create a larger deadweight loss?
 - a. the tax on pretzels
 - b. the tax on potato chips
 - c. The taxes would create the same amount of deadweight loss.
 - d. This question is impossible to answer without knowing the price of both pretzels and potato chips.

ANS: B DIF: Average REF: 162

Figure 8-2



- 21. **Refer to Figure 8-2**. The equilibrium price before the tax is
 - a. P_1 .
 - b. P_2 .
 - c. P_3 .
 - d. None of the above are correct.

ANS: B

DIF: Average

REF: 162

- 22. **Refer to Figure 8-2**. The price that will be paid after the tax is
 - a. P_1 .
 - b. P_2 .
 - c. P_3 .
 - d. impossible to determine.

ANS: C

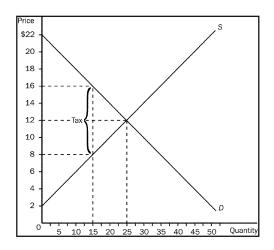
DIF: Average

REF: 162

- 23. **Refer to Figure 8-2**. The price sellers receive after the tax is
 - a. P_1 .
 - b. P_2 .
 - c. P_3 .

	ANS: A	DIF:	Average	REF:	162
24.	Refer to Figure 8-2. a. $P_3 - P_1$. b. $P_3 - P_2$. c. $P_2 - P_1$. d. $Q_2 - Q_1$.	The pe	r unit burden o	f the tax	on buyers is
	ANS: B	DIF:	Challenging	REF:	162
25.	Refer to Figure 8-2. a. $P_3 - P_1$. b. $P_3 - P_2$. c. $P_2 - P_1$. d. $Q_2 - Q_1$.	The pe	r unit burden o	f the tax	c on the sellers is
	ANS: C	DIF:	Challenging	REF:	162
26.	Refer to Figure 8-2. a. $P_3 - P_1$. b. $P_3 - P_2$. c. $P_2 - P_1$. d. $Q_2 - Q_1$.	The an	nount of the tax	impose	ed is
	ANS: A	DIF:	Challenging	REF:	162
27.	The amount of tax re a. <i>P</i> ₃ A C <i>P</i> ₁ . b. A B C. c. <i>P</i> ₂ D A <i>P</i> ₃ . d. <i>P</i> ₁ C D <i>P</i> ₂ .	venue r	eceived by the	governi	ment is equal to the area
	ANS: A	DIF:	Challenging	REF:	162
28.	The amount of deadwa. $P_3 \land C P_1$. b. $\land B C$. c. $P_2 \land D P_3$. d. $P_1 \lor C P_2$.	veight l	oss associated v	with the	tax is equal to
	ANS: B	DIF:	Challenging	REF:	162
	Figure 8-6				

d. impossible to determine.



- 29. **Refer to Figure 8-6**. The equilibrium market price before the tax is imposed is
 - \$16.
 - \$12. b.
 - c. \$8.
 - d. \$4.

ANS: B

DIF: Easy

REF: 167

- 30. **Refer to Figure 8-6**. The price buyers pay after the tax is
 - a. \$16.
 - b. \$12.
 - c. \$8.
 - d. \$4.

ANS: A

DIF: Average

REF: 167

- 31. **Refer to Figure 8-6**. The price sellers receive after the tax is
 - a. \$16.
 - b. \$12.
 - c. \$8.
 - d. \$4.

ANS: C

DIF: Average

REF: 167

- 32. Refer to Figure 8-6. Consumer surplus before the tax was levied equaled
 - a. \$150.
 - b. \$125.
 - c. \$75.
 - d. \$45.

ANS: B

DIF: Challenging REF: 167

- 33. **Refer to Figure 8-6**. Producer surplus before the tax equaled
 - a. \$150.
 - b. \$125.
 - c. \$75.
 - d. \$45.

ANS: B

DIF: Challenging REF: 167

34. **Refer to Figure 8-6**. After the tax is levied, consumer surplus would be

	a. \$150.b. \$125.c. \$75.d. \$45.				
	ANS: D	DIF:	Challenging	REF:	167
35.	Refer to Figure 8-6. a. \$150. b. \$125. c. \$75. d. \$45.	After t	he tax is levied	, produc	eer surplus would be
	ANS: D	DIF:	Challenging	REF:	167
36.	Refer to Figure 8-6. a. \$100. b. \$80. c. \$70. d. \$60.	The re	duction in cons	umer su	urplus caused by the tax would be
	ANS: B	DIF:	Challenging	REF:	167
37.	Refer to Figure 8-6. a. \$100. b. \$80. c. \$70. d. \$60.	The re	duction in prod	ucer sui	rplus caused by the tax would be
	ANS: B	DIF:	Challenging	REF:	167
38.	Refer to Figure 8-6. a. \$350. b. \$300. c. \$250. d. \$200.	The to	tal surplus befo	ore the ta	ax would equal
	ANS: C	DIF:	Challenging	REF:	167
39.	Refer to Figure 8-6. a. \$240. b. \$230. c. \$220. d. \$210.	The to	tal surplus with	the tax	would equal
	ANS: D	DIF:	Challenging	REF:	167
40.	Refer to Figure 8-6. tax is a. \$20. b. \$30. c. \$40. d. \$50. ANS: C	The an	nount of deadw		ss in this market resulting from the levying of the
	7111D. C	DII'.	Chancilging	KLI'.	10/

	c. \$100.d. \$80.			
	ANS: B	OIF: Challenging	REF:	167
42.	waste that would cause following would NOT ca. a decrease in consumb. a decrease in product. a probable increase	irreparable harm to a	a large imers o cers of c welfa	the taxed good are of society
	ANS: D D	IF: Average	REF:	167
43.	Governors of each of th a. a decrease in consum b. a decrease in product. c. a probable decrease	e 50 states. In this camer surplus to consucer surplus to produce in the welfare of so	ase whi imers o cers of ciety th	
	ANS: D D	OIF: Challenging	REF:	167
44.	a. does not depend onb. is higher when tax rc. is lower when tax r	tax rates.	when ta	x rates are lower.
	ANS: B	OIF: Average	REF:	165
45.	The greater the elasticities. smaller the deadweight. less intrusive a tax of the control of the	ight loss from a tax. will be on a market. ght loss from a tax.		
	ANS: C D	OIF: Average	REF:	167
46.		nange in the amounts nange in the amounts ange in the amounts	s that books sellers	uyers are willing to buy. s are willing to sell. are willing to sell.
	ANS: C D	OIF: Challenging	REF:	167
47.	Assume that the demand diamonds will cause the a. zero. b. relatively large. c. relatively small.			tic than the demand for gasoline. The tax levied on o be

41. **Refer to Figure 8-6**. The benefits to the government (total tax revenue) would be

b. \$120.

	d. either small	or large (de _l	pending on t	he elasticit	ty of supply).	
	ANS: B	DIF:	Average	REF:	167	
48.	gasoline will cau	se the loss of the raising the ge. all.	of consumer e price of gas	surplus to soline has	no effect on the amount purchased).	
	ANS: C	DIF:	Average	REF:	167	
49.	A tax placed on land would cause a. a huge deadweight loss. b. no deadweight loss. c. landlords to not bear any of the burden of the tax. d. enough tax revenue so that all other taxes could be eliminated.					
	ANS: B	DIF:	Average	REF:	170	
50.	When the size of a. increases by b. doubles. c. remains cons d. increases by	the size of t	the tax.	adweight l	loss from the tax	
	ANS: D	DIF:	Average	REF:	163	
51.	The "underground" economy refers to a. mining and excavation. b. illegal activities (such as prostitution and illegal drugs). c. barter and other activities conducted "under the table" to avoid being taxed. d. All of the above are correct. e. Both b and c are correct.					
	ANS: D	DIF:	Average	REF:	172	
52.	Tax cuts and deregulation may cause output in an economy to increase because of all of the following EXCEPT a. increasing the value of output by reducing deadweight tax burdens. b. luring the underground economy to the surface. c. increasing incentives to produce. d. reducing competition.					
	ANS: D	DIF:	Average	REF:	173	
53.	market by 200 ur a. \$2000. b. \$1000. c. \$500.	nits. The de		s from the		
	a. There is not					

- 54. Suppose that the equilibrium quantity in the market for widgets has been 200 per month. Then a tax of \$5 per widget is imposed on widgets. The price paid by buyers increases by \$2 and the after-tax price received by sellers falls by \$3. The government is able to raise \$750 per month in revenue from the tax. The deadweight loss from the tax is
 - a. \$250.
 - b. \$125.
 - c. \$75.
 - d. \$50.

ANS: B DIF: Challenging REF: 163

- 55. Suppose that policymakers are considering placing a tax on either of two markets. In Market A, the tax will have a significant effect on the price consumers pay, but it will not affect equilibrium quantity very much. In Market B, the same tax will have only a small effect on the price consumers pay, but it will have a large effect on the equilibrium quantity. In which market will the tax have a larger deadweight loss?
 - a. Market A
 - b. Market B
 - c. Deadweight loss will be the same in both markets.
 - d. There is not enough information to answer the question.

ANS: B DIF: Challenging REF: 163

- 56. Suppose that the equilibrium quantity in the market for widgets has been 200 per month. Then a tax of \$5 per widget is imposed on widgets. As a result, the government is able to raise \$750 per month in revenue. But at the same time, an underground market in widgets is created which did not previously exist. The government uses the funds raised in the legal widget market to completely suppress the underground widget market. The action has no effect on the legal market; the government still collects \$750 per month in revenue. By itself, the government's crackdown on the underground market
 - a. increased the deadweight loss to society from the widget tax.
 - b. decreased the deadweight loss to society from the widget tax.
 - c. had no effect on the deadweight loss to society from the widget tax.
 - d. might have increased, decreased or had no effect on the deadweight loss to society from the widget tax.

ANS: A DIF: Challenging REF: 163

- 57. Which of the following would likely have the smallest deadweight loss?
 - a. a head tax (i.e., a tax everyone must pay regardless of what one does or buys)
 - b. an income tax
 - c. a tax on compact discs
 - d. a tax on caviar

ANS: A DIF: Challenging REF: 163

- 58. As more people become self-employed and so can determine how many hours they work per week, we would expect that the deadweight loss from the Social Security Tax would
 - a. increase and the revenue generated from it would rise.
 - b. decrease and the revenue generated from it would rise.
 - c. increase and the revenue generated from it would fall.
 - d. decrease and the revenue generated from it would fall.

ANS: C DIF: Challenging REF: 163