

What happens when a transaction occurs?
 Buyers

 The value for the next orange is lower than the previous orange

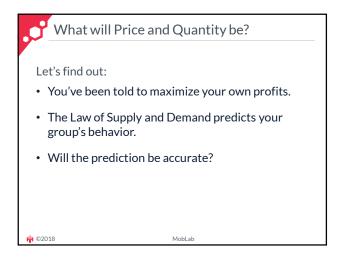
 Sellers

 The cost to supply the next orange is greater than the previous orange

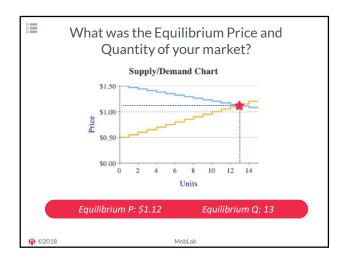


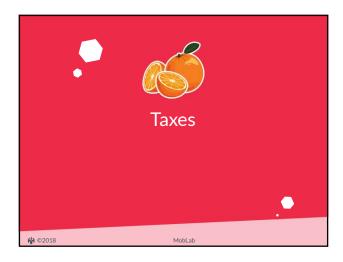


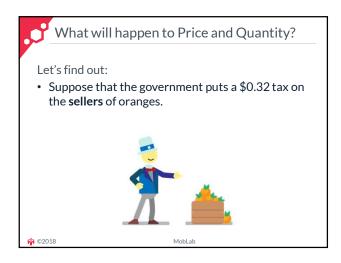






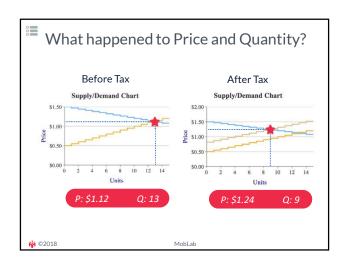


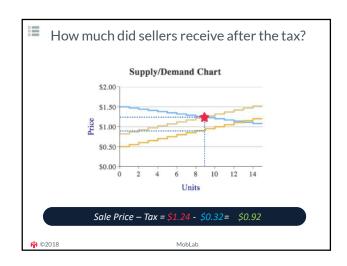


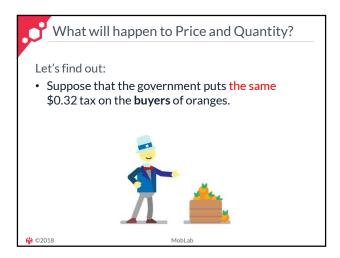




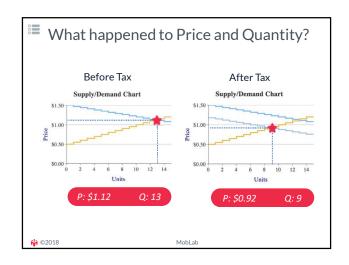


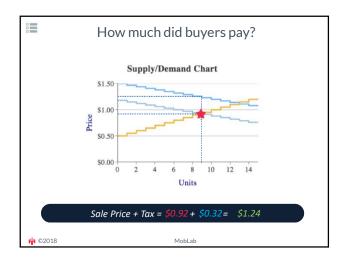






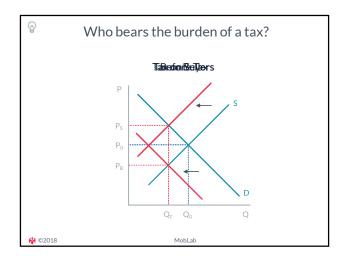


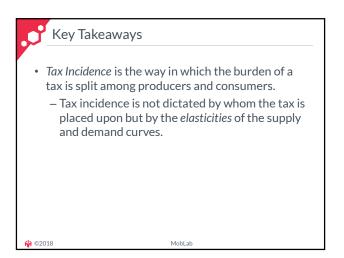


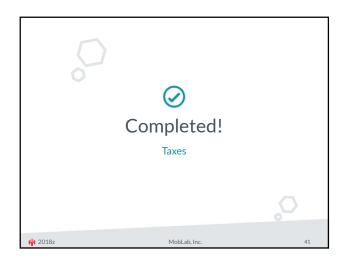






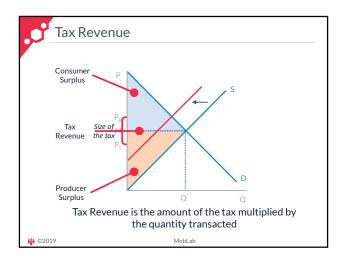


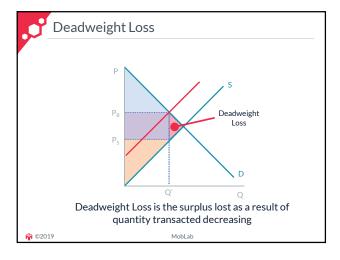






What happens to overall surplus?
 When a tax is levied, buyers pay more and sellers receive less
 The difference in how much more buyers pay and how much less sellers receive is the amount of the tax
 It does not matter who the tax is levied on, the result is the same
 Since buyers pay more, they buy less
 Since sellers receive less, they produce less



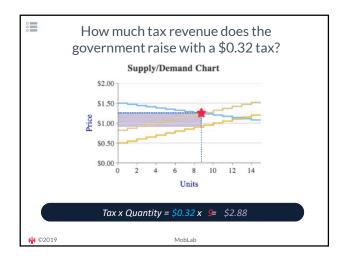


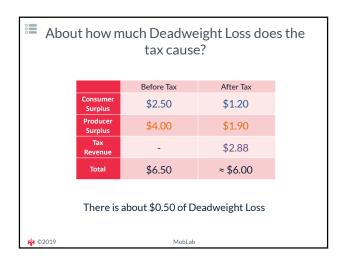
What happens to overall surplus?
 For a trade that has a surplus greater than the tax:

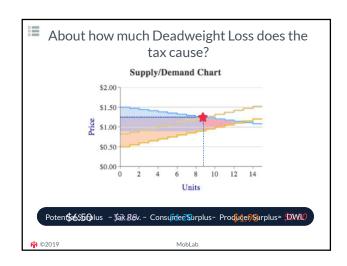
 Total surplus does not change
 Consumer surplus and producer surplus decrease and is transferred to the government

 For a trade that has a surplus less than the tax:

 The trade does not happen
 Producer surplus and consumer surplus is 0
 The government collects no revenue
 This is the source of Deadweight loss









Producers produce less and Buyers buy less
 Reduction in the quantity transacted is the source of the Deadweight Loss
 Deadweight Loss is the surplus lost that is not captured by the consumers, producers, or the government
 Another way of looking at it is that Deadweight Loss is equal to the surplus from transactions that would have happened if there was no tax

