Espresso Tax Notes on Solution

1 Supply curve perfectly elastic:



2 Higher demand elasticity

demand elasticity = -2.0

pct chg in Q = pct change in P * demand elasticity pct chg in Q = -8.0%Qn = 30*(1+pct chg in Q)Qn = 27.6 million change in Q = -2.4 million Change in CS = -(A+B)Change in PS = 0Revenue = A

2.76 million A = B = 0.12 million Loss of CS 2.88 = Loss of PS = 0 Tax Revenue 2.76 = DWL 0.12 = DWL per dollar of revenue = 0.043

DWL per dollar is about 4x larger because demand is more elastic.

3 Supply perfectly inelastic

In this circumstance, producers will end up paying the tax; none of it will be passed on to consumers. Here's the diagram:



The price will remain at \$2.50 so there will be no change in CS.