Exam 1 Notes on Solution

1a rent control in effect w2p = 8000 - 8Q w2a = 2Q control = 1000 1000 = 2Q Q = 500 w2p = 8000 - 8Q = 4000 $\begin{cases}
4000 \\
----- \\
1000 \\
----- \\
500 \\
\end{bmatrix}$ Demand w2p = 8000 - 8Q w2a = 2Q w2p = w2a 8000 - 8Q = 2Q 8000 = 10Q Q = 800





demand elasticity	=	((800-500)/500)/((1600-4000)/4000)	=	60% /	-60% =	-1.0
supply elasticity	=	((800-500)/500)/((1600-1000)/1000)	=	60% /	60% =	1.0



Gainers and losers:

Consumers who were able to get an apartment while rent control was in effect lose C: -300,000 Consumers who were NOT able to get an apartment while rent control was in effect gain B: 360,000 Producers gain C+D 390,000 2 Good A

Po = 100 10 million Qo= Elast= -4 Tax 10 Pct change in P= 10% Pct change in Q= -40% Qn = 6 Rev= 60 million DWL= 20 million DWL per dollar of revenue = 0.33 Good B Po = 100 Qo= 5 Elast= -1 Tax 20 Pct change in P= 20% Pct change in Q= -20% Qn= 4 Rev= 80 million DWL= 10 million DWL per dollar of revenue = 0.13

Taxing good B is better: it generates an adequate amount of revenue and it generates less DWL in the process. This is reflected most clearly in the lower DWL per dollar of revenue.