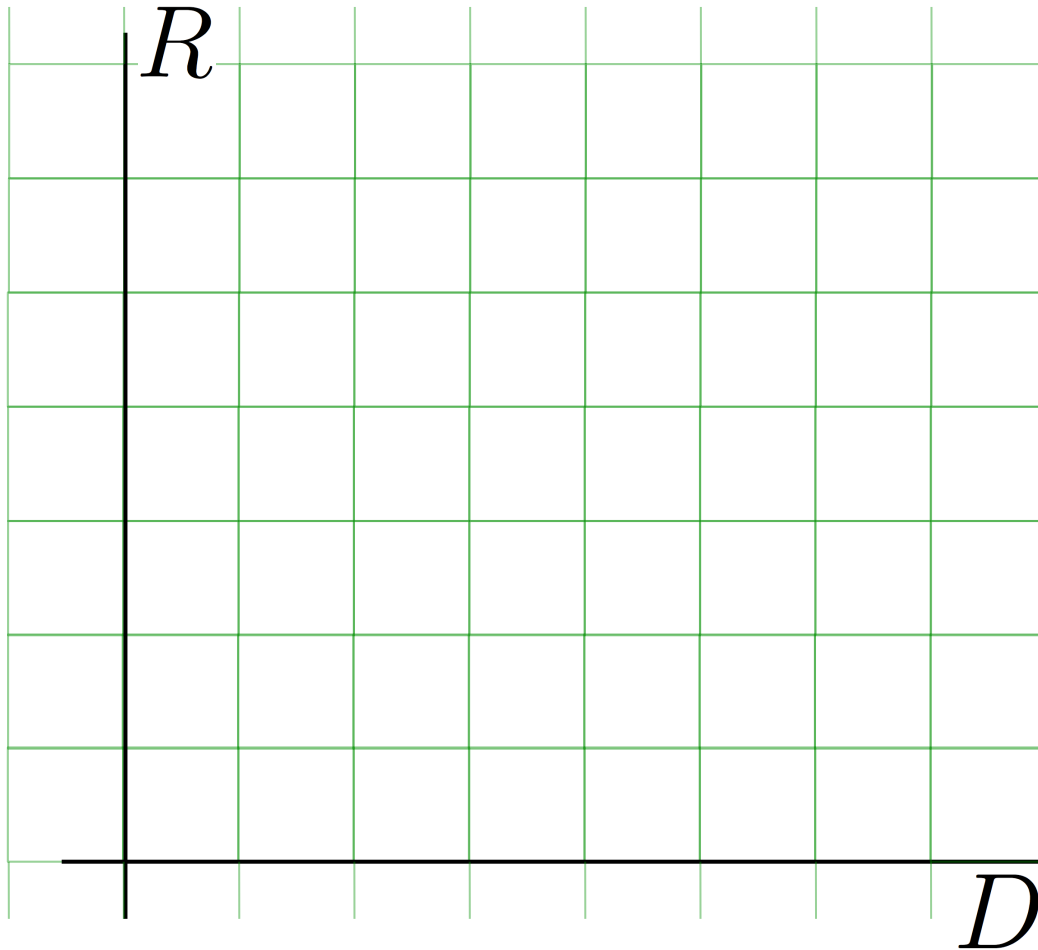
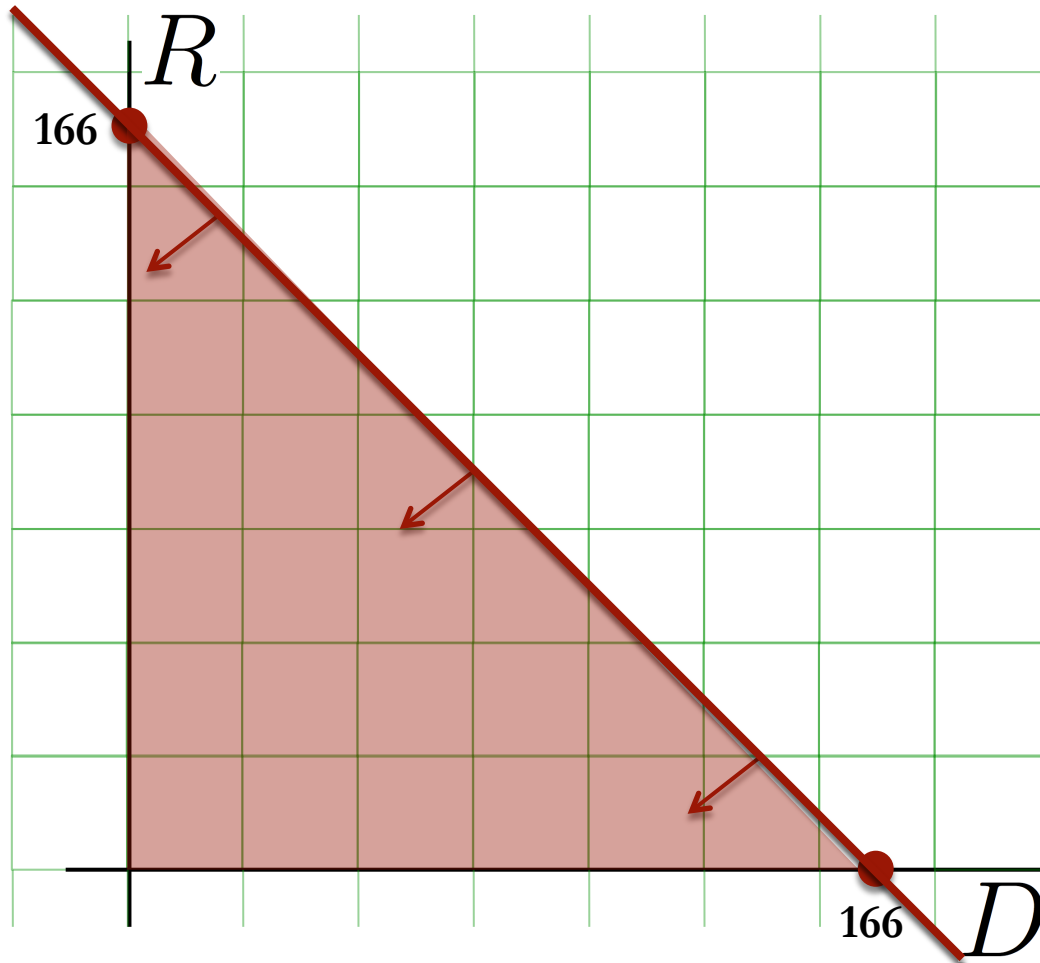


Visualizing the Problem



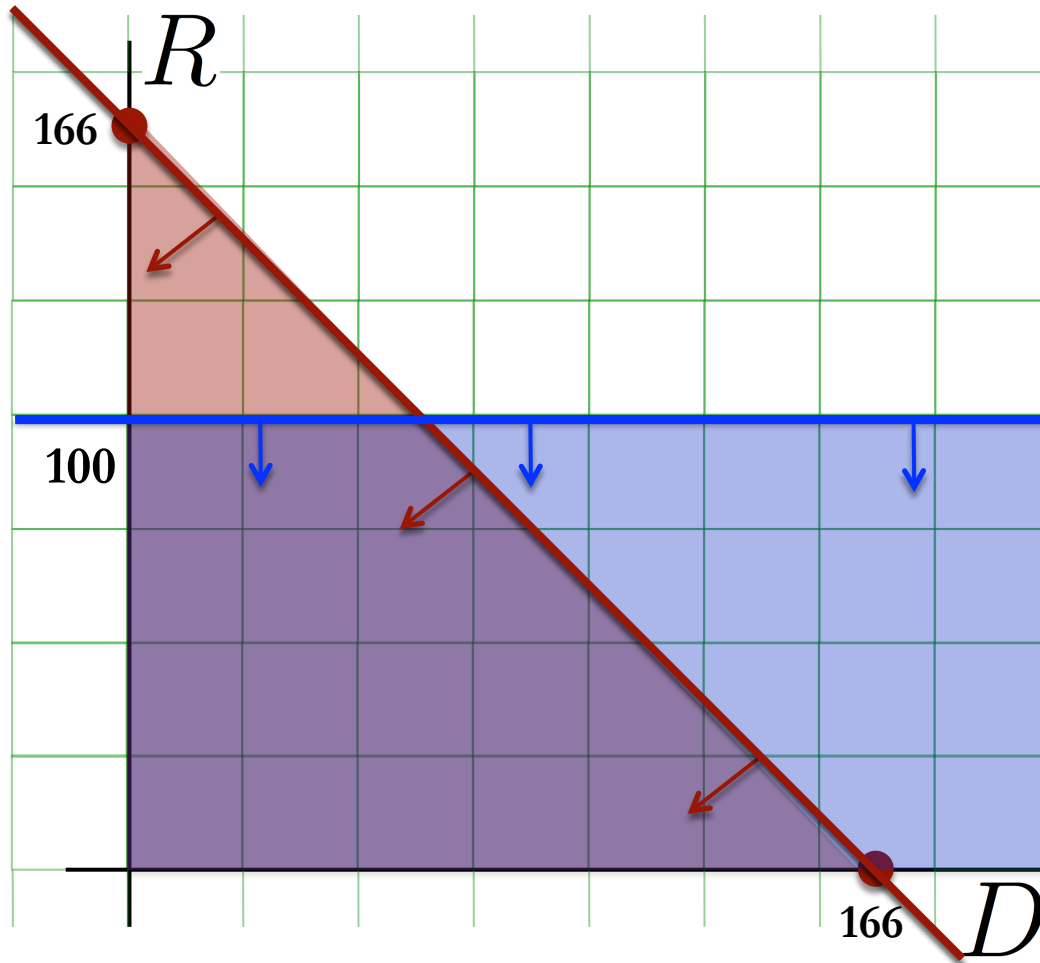
- 2D Representation
- Constraints
 - Non-negativity
 $R \geq 0, D \geq 0$

Visualizing the Problem



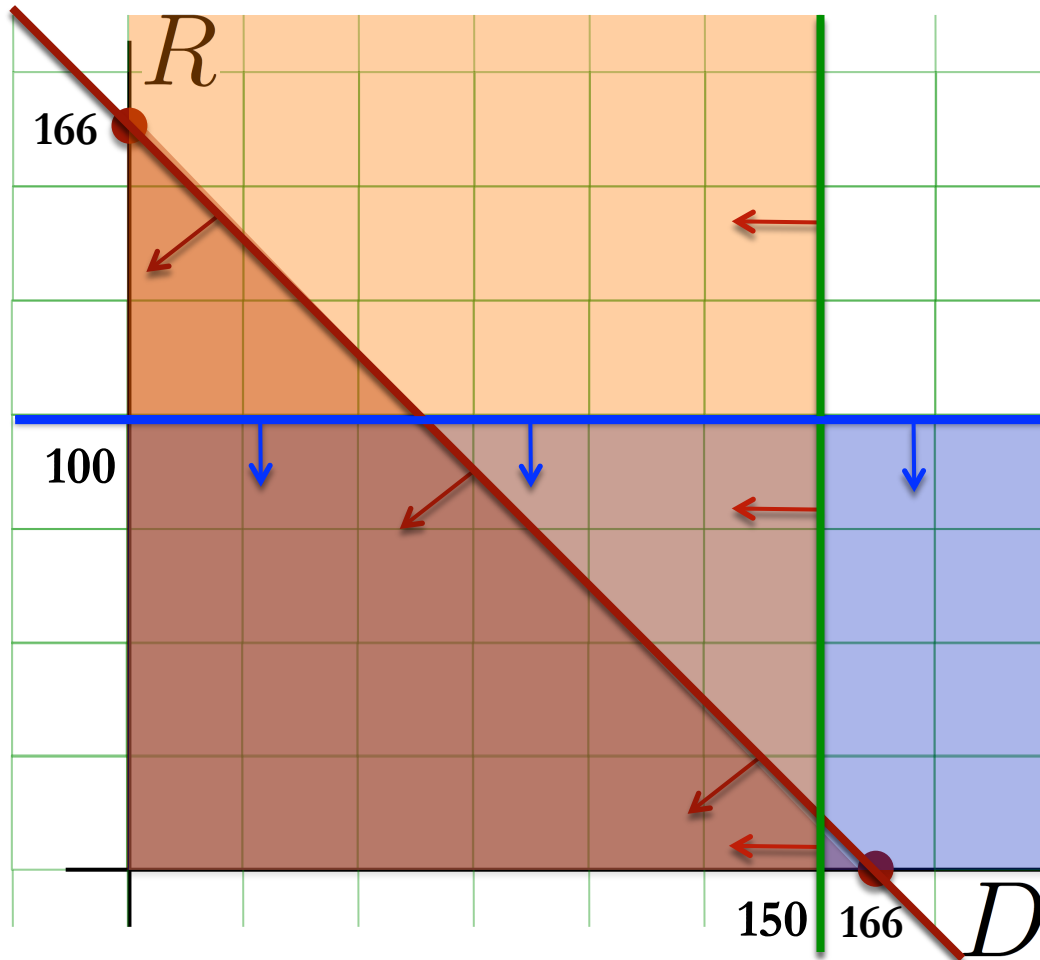
- 2D Representation
- Constraints
 - Non-negativity
 $R \geq 0, D \geq 0$
 - Capacity
 $R + D \leq 166$

Visualizing the Problem



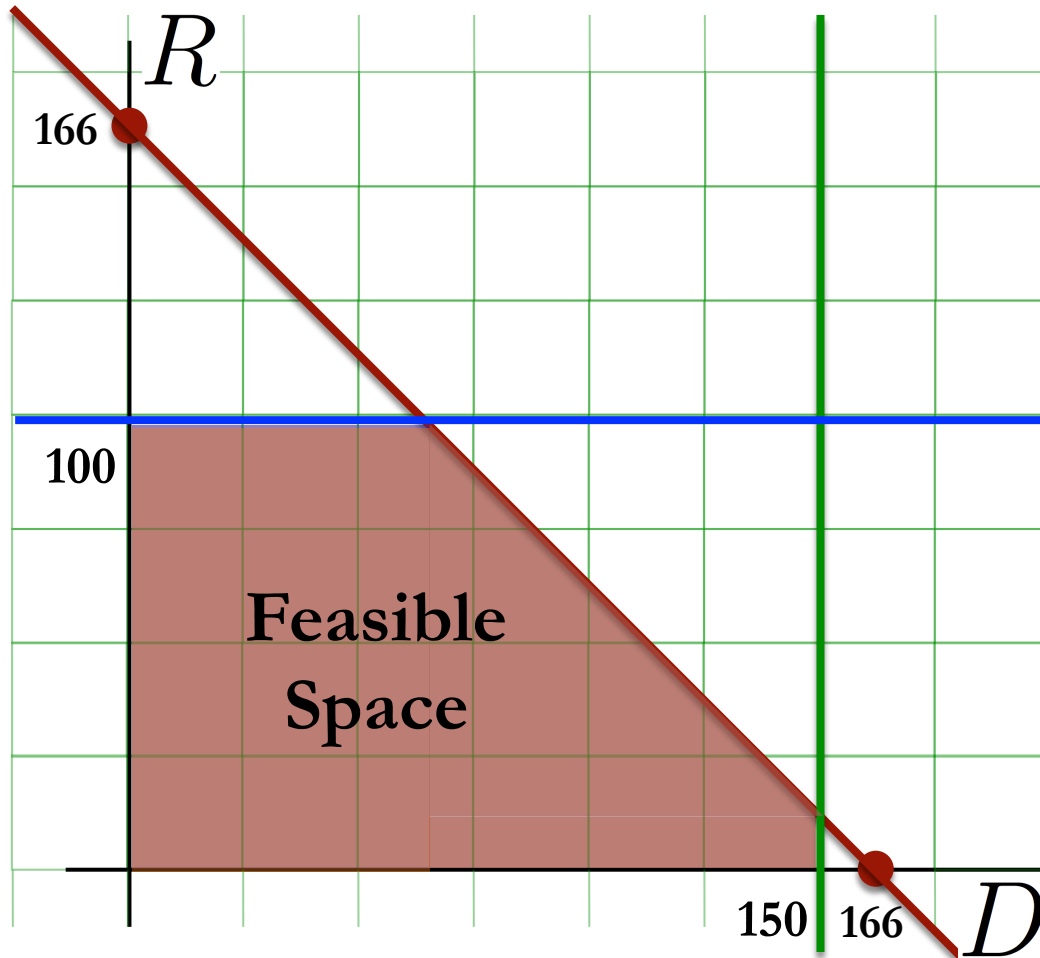
- 2D Representation
- Constraints
 - Non-negativity
 $R \geq 0, D \geq 0$
 - Capacity
 $R + D \leq 166$
 - Demand
 $R \leq 100, D \leq 150$

Visualizing the Problem

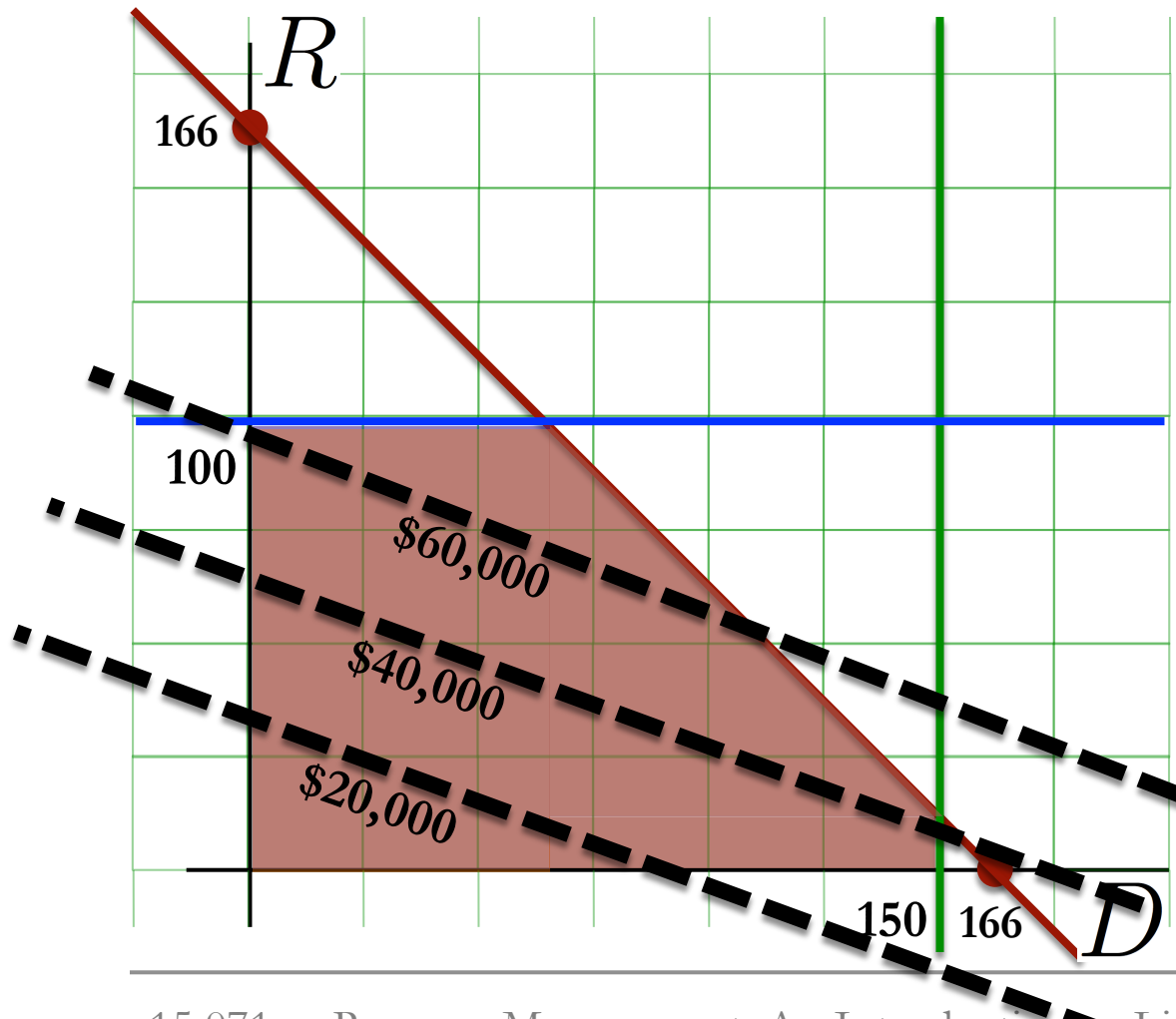


- 2D Representation
- Constraints
 - Non-negativity
 $R \geq 0, D \geq 0$
 - Capacity
 $R + D \leq 166$
 - Demand
 $R \leq 100, D \leq 150$

Feasible Space

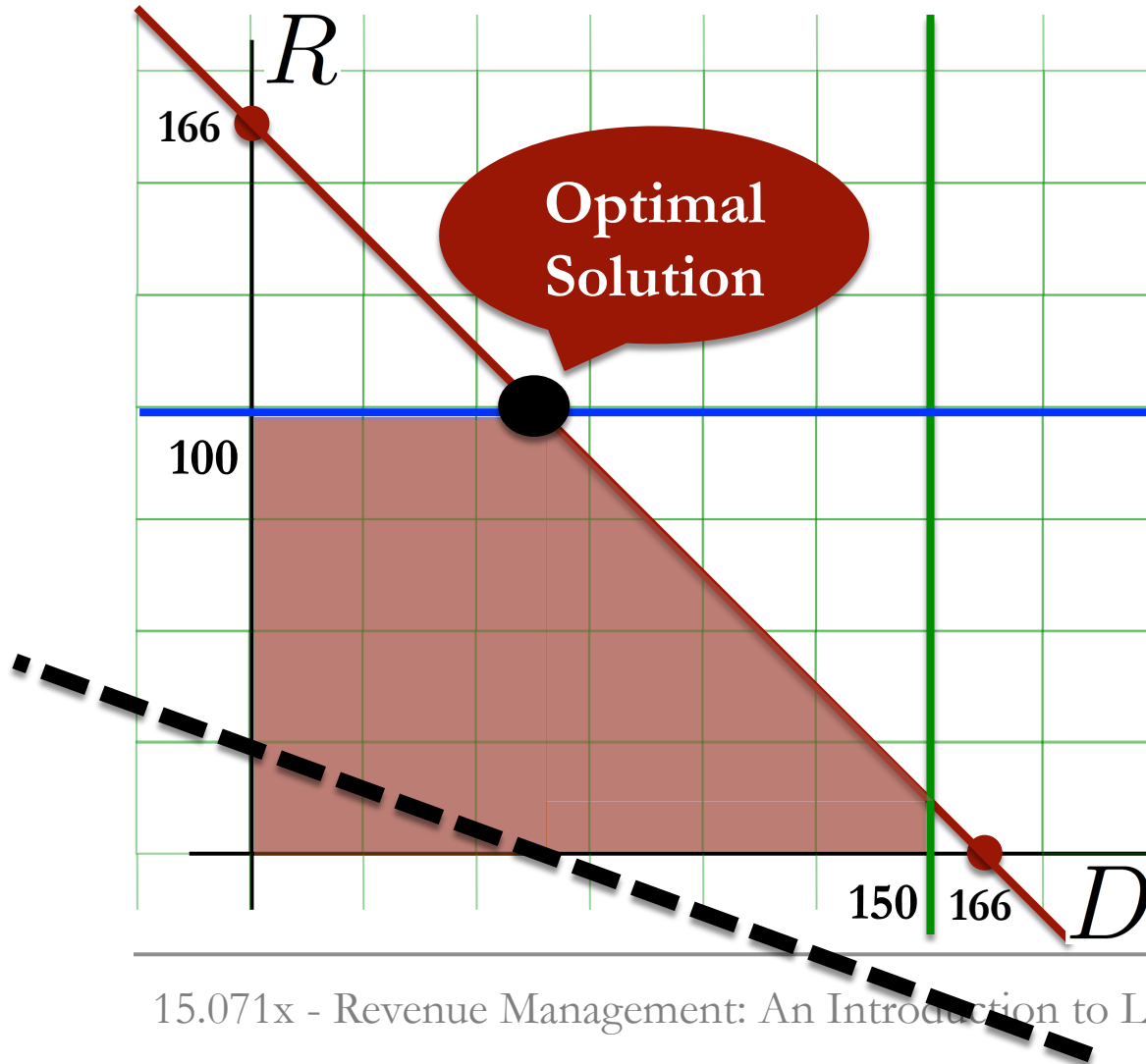


Possible Solutions



- Revenue $617R + 238D$
- How many seats to sell of each type to achieve a revenue of
 - \$20,000?
 - \$40,000?
 - \$60,000?

Best Solution



- Revenue $617R + 238D$
- How many seats to sell of each type to achieve the highest revenue possible?