

**Example: (Formulating linear programming model)**

A manufacturer produces two types of models  $M$  and  $N$ . Each  $M$  model requires 4 hours of grinding and 2 hours of polishing, whereas each  $N$  model requires 2 hours of grinding and 5 hours of polishing. The manufacturer has 2 grinders and 3 polishers. Each grinder works for 40 hours a week and each polisher works for 60 hours a week. Profit on model  $M$  is 3€/Unit and model  $N$  is 4€/Unit. Whatever is produced in a week is sold in the market.

❖ Write the Linear Programming Model?