

Linear Programming

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Chapter 6: Worksheet 4

Level 1 - Solve simple linear programming problems

Level 1

- a) A small workshop produces two items: chairs (x) and tables (y).
- Each chair requires 1 hour of Finishing and 2 hours of Cutting.
 - Each table requires 3 hours of Finishing and 3 hours of Cutting.
 - The Finishing department has at most 18 hours available.
 - The Cutting department has at most 24 hours available.
 - Profit: \$5 per chair and \$8 per table.
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How many of each chair and table should be made to maximize profit?

