

MATH127-001 200710 Quiz 2

Edward Doolittle

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Please do the following problems. Use the backs of the pages if necessary. You have 20 minutes; the quiz is worth 20 marks.

1. Lamps Inc. makes desk lamps and floor lamps. The company has 1200 hours of labour and \$4200 to purchase materials each week. It takes 0.8 hours of labour to make a desk lamp and 1.0 hours of labour to make a floor lamp. The materials cost \$4 for each desk lamp and \$3 for each floor lamp. Sketch the feasible region for the problem.

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2. The company makes a profit of \$2.65 on each desk lamp and \$3.15 on each floor lamp. How many of each should be made each week to maximize profits?