Assumptions and limitations

Name: _____ Date: _____

6 questions | 12 marks

1. A model assumes every cake made is sold. Suggest one useful extra restriction. [2 marks]

2. An optimum uses all 50 staff hours. An absence removes 4 hours. What must change? [2 marks]

3. A plotted optimum appears near $(3.98, 6.02)$. Why solve exact boundary equations before choosing integer counts? [2 marks]

4. A higher-price product also has higher unit cost. Is it necessarily better for profit? [2 marks]

5. A model predicts unlimited profit with no capacity or demand bound. What does that suggest? [2 marks]

6. A small change in one profit coefficient changes the best plan. What should a report explain? [2 marks]