Practice worksheet | Linear models and optimisation

Linear inequalities

Name: _____ Date: _____

6 questions | 12 marks

1. Solve $3x - 5 \leq 16$. [2 marks]

2. Solve $10 - 4x > 22$. [2 marks]

3. A venue holds no more than 90 people. Adult and child bookings are a and c. Write a restriction. [2 marks]

4. A minimum revenue of AUD 180 is needed. Standard items earn AUD 12 and deluxe items AUD 20. Write the restriction. [2 marks]

5. Does $(4, 3)$ satisfy both $2x + y \leq 12$ and $x + 2y \geq 11$? [2 marks]

6. For $x + y < 8$, is $(3, 5)$ allowed? [2 marks]