Practice worksheet | Coordinates, patterns and graphs

Discrete points versus continuous graphs

Name: _____ Date: _____

6 questions | 15 marks

1. Is the number of whole cars in a car park discrete or continuous? Explain. [2 marks]

2. Rope is sold by measured length. Is length discrete or continuous in a mathematical model? [2 marks]

3. Tickets cost 8 dollars each and only whole tickets are sold. Is $(1.5, 12)$ allowed? [2 marks]

4. An empty tank fills steadily at 2 L/min. Find the volume at 2.5 min and classify the model. [3 marks]

5. The temperature is 20°C at noon and 24°C at 2 pm. Must it have been 22°C at 1 pm? Explain. [3 marks]

6. Why should the tops of bars for red, blue and green not be joined to claim a continuous numerical relationship? [3 marks]