Practice worksheet | Ratios and proportion

Choosing, checking and explaining proportional models

Name: _____ Date: _____

6 questions | 18 marks

1. Four equal packets hold 28 stickers. Predict the stickers in 9 packets and state an assumption. [3 marks]

2. A tap fills 15 L in 3 minutes. Find the time for 40 L at the same rate. [3 marks]

3. A car park charges 4 dollars to enter plus 2 dollars per hour. Is the total cost directly proportional to time? [3 marks]

4. Distance and fuel pairs are $(100, 8)$, $(200, 16)$ and $(300, 24)$ in km and L. Predict fuel for 250 km. [3 marks]

5. A printer makes 120 pages in 4 working minutes. During 10 clock minutes it pauses for 2 minutes. Predict pages at its steady rate. [3 marks]

6. A gardener predicts 6 small plants need twice the water of 3 large plants. Why are the counts alone insufficient? [3 marks]