

Proportion Problems

Name:

Date:

INQUIRY

If 3 German pretzels cost 4.50 euro, how much do 7 cost? That's proportion.

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

| Term | Definition |
|----------------|------------------------------------|
| Proportion | Two ratios that are equal. |
| Unitary method | Find the value of ONE, then scale. |

Part A — Unitary Method

1. 5 pens cost 12 yuan. Find the cost of 8 pens. [2 marks]

Show your working:

2. 3 pretzels cost 4.50 euro. Find the cost of 7. [2 marks]

Show your working:

3. A car uses 6 litres per 100 km. Nanjing to Shanghai is 300 km. How many litres? [2 marks]

Show your working:

Part B — Sharing

4. Share 180 yuan between two friends in ratio 2:7. [2 marks]

Show your working:

5. Three Korean students share a prize of 90,000 won in ratio 1:2:3. How much does each get? [3 marks]

Show your working:

Part C — Challenge

6. A recipe for 4 people uses 300g chicken. How much for 10 people? [2 marks]

Show your working: