

Introduction to Ratios

Name:

Date:

INQUIRY

A Korean bibimbap recipe uses rice to vegetables in the ratio 3:2. What does that actually mean?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Ratio	Compares two or more quantities. Written a:b.
Simplify	Divide all parts by HCF.

Part A — Writing Ratios

1. In a class: 12 Chinese, 8 Korean, 4 German students. Write the ratio Chinese:Korean:German in simplest form. [2 marks]

2. Simplify: (a) 12:18 (b) 20:35 (c) 8:12:20. [3 marks]

Show your working:

Part B — Application

3. Bibimbap ratio rice:veg = 3:2. If you use 300g rice, how much vegetables? [2 marks]

Show your working:

4. Concrete mix: cement:sand:gravel = 1:2:4. You need 2.1 tonnes total. Find each amount. [3 marks]

Show your working:

Part C — Challenge

5. Nanjing metro map scale is 1:50,000. The distance on the map between two stations is 6 cm. What is the real distance in km? [3 marks]

Show your working: