

Equivalent Ratios

Name:

Date:

INQUIRY

Is a class with 3 boys and 2 girls the same ratio as one with 15 boys and 10 girls?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Equivalent ratios	Ratios with the same value: $3:2 = 6:4 = 15:10$.
Unitary ratio	A ratio where one part equals 1.

Part A — Finding Equivalents

1. Complete: (a) $3:5 = ? : 20$ (b) $4:7 = 12 : ?$ (c) $2:3:5 = ? : 9 : ?$. [3 marks]

Show your working:

2. Write 5:8 as a unitary ratio (1:n). [2 marks]

Show your working:

Part B — Real World

3. A Korean paint mix uses red:white = 2:5. To make 3.5 litres, how much of each? [3 marks]

Show your working:

4. Chinese green tea: water:leaves = 50:1 by mass. You have 8g of tea. How much water? [2 marks]

Show your working: