

P5/P6 RATIO

GYM Edu Hub Primary

Ratio One-Page Mind Map

For P5/P6 Math - understand parts, total units and comparison models.

Teacher Hidayah says: Ratio is not just numbers separated by a colon. Ratio tells a story about how quantities are compared.

Mind Map Branches

1. What is ratio? Ratio compares quantities. Example: Boys : Girls = 2 : 3 means for every 2 boys, there are 3 girls.	2. Part-to-part Compare one part to another part. Example: Red : Blue = 3 : 5.
3. Part-to-whole Compare one part to the total. If Red : Blue = 3 : 5, then Red : Total = 3 : 8.	4. Total units Add the ratio units. 2 : 3 means total units = 2 + 3 = 5 units.
5. Difference units Subtract the ratio units. 5 : 3 means difference = 2 units.	6. Always label Write what each part represents before solving. Labels prevent wrong comparison mistakes.

Must-Know Ratio Moves

- If the question gives the total, find total units first.
- If the question gives the difference, find difference units first.
- If the question says "altogether", think total.
- If the question says "more than" or "less than", think difference.

Worked Example

Question: The ratio of Ali's stamps to Ben's stamps is 3 : 5. They have 64 stamps altogether. How many stamps does Ben have?

Step 1: Identify total units	Ali : Ben = 3 : 5. Total units = $3 + 5 = 8$ units.
Step 2: Match units to total	8 units = 64 stamps.
Step 3: Find 1 unit	1 unit = 64 divided by 8 = 8 stamps.
Step 4: Find Ben's stamps	Ben = 5 units = $5 \times 8 = 40$ stamps.
Answer	Ben has 40 stamps.

Common Ratio Mistakes

- Using the difference as the total.
- Forgetting to add all units when total is given.
- Comparing the wrong person or quantity.
- Not labelling the model.
- Stopping after finding 1 unit but not answering the question.

Quick Check: Before solving any ratio question, ask: Am I given the total, a part, or the difference?

Before-Class Prep

- Watch/read the concept preview: Ratio compares quantities.
- Warm-up 1: Red : Blue = 4 : 7. What is the total number of units?
- Warm-up 2: Boys : Girls = 2 : 5. What is the difference in units?
- Warm-up 3: If 1 unit is 6, how much is 5 units?

After-Class Practice

- Do 5 ratio questions after lesson.
- Circle whether the question gives total, part, or difference.
- Draw a simple labelled model.
- Write one sentence explaining your mistake if you got it wrong.

Student Reflection

What part of ratio still feels confusing? Write it down before the next lesson.