Sharing in a ratio

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

A **ratio** compares two quantities — for every X of the first there are Y of the second. We write it as **X : Y**.

→ A salad has 2 spoons of oil for every 3 spoons of vinegar — ratio **2 : 3**.

→ **1 : 4** means '1 of every 5 parts is the first thing'.

SHARE €30 IN THE RATIO 2 : 3

1. Add the parts: 2 + 3 = **5 equal shares** in total.
2. Divide €30 by 5 to find one share: 30 ÷ 5 = **€6**.
3. First person gets 2 shares: 2 × €6 = **€12**. Second gets 3 shares: 3 × €6 = **€18**.

HOW TO ANSWER TODAY

- **Share in a ratio.** Add the ratio parts. Divide the total by that number to find ONE part. Multiply each ratio number by it.

  Share €90 in 2:3 → 5 parts, €90 ÷ 5 = €18 per part → €36 and €54

TRY IT ON THE LINE

Use the strip to split the total. Count how many parts altogether; share the total across them; then count the parts each share owns.

€20 in ratio 2 : 3 → each part = €_____

21 sweets in ratio 3 : 4 → each part = _____ sweets

€48 in ratio 1 : 5 → each part = €_____

1. Strip 1: 2 + 3 = 5 parts total. €20 ÷ 5 = _____ per part. Shares: _____ and _____
2. Strip 2: 3 + 4 = 7 parts. 21 ÷ 7 = _____ per part. Shares: _____ and _____
3. Strip 3: 1 + 5 = 6 parts. €48 ÷ 6 = _____ per part. Shares: _____ and _____

PRACTICE

1. Saoirse is hosting a sleepover and lays out **72** biscuits on two trays for the snack table. She splits the biscuits between the chocolate tray and the plain tray in the ratio **1:5**. How many biscuits are on each tray?

   Share 72 in the ratio 1:5.

2. Cian, Saoirse and Tadhg share out **35** library books to carry back to the classroom in the ratio **1:2:4**. How many books does each child carry?