Ratio: flowchart

Planner week 1 · Whole, one part or difference? Follow the arrows to find out

Sharing in a ratio

Which number have you been given?

Underline it. Whose amount is it?

The WHOLE

Amy and Ben share £40 in the ratio 3 : 5.

Amy	£5	£5	£5		
Ben	£5	£5	£5	£5	£5

1. **Add** the parts: 3 + 5 = 8
2. **Divide** the total: £40 ÷ 8 = £5
3. **Multiply**: Amy 3 × £5 = **£15**, Ben 5 × £5 = **£25**

✓ £15 + £25 = £40

ONE PART

Red : green beads = 2 : 5. There are 20 red beads.

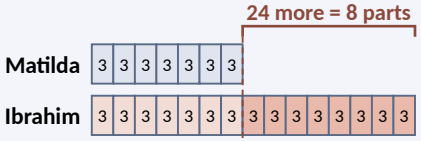
red	10	10			
green	10	10	10	10	10

1. Red is **2 parts** = 20
2. **One part**: 20 ÷ 2 = 10
3. **Multiply**: green 5 × 10 = **50**

✓ Total: 7 × 10 = 70 beads

The DIFFERENCE

Matilda : Ibrahim = 7 : 15. Ibrahim gets 24 more sweets.



1. **Subtract**: 15 − 7 = 8 parts = 24
2. **One part**: 24 ÷ 8 = 3
3. **Multiply**: Matilda 7 × 3 = **21**, Ibrahim 15 × 3 = **45**

✓ 45 − 21 = 24

What does the question ask for?

One person
give only their share

The total
add all the shares together

The big question

Have I been given the **WHOLE**, **ONE PART** or the **DIFFERENCE**?

All three end the same way: find **one part**, then **multiply**.

Watch out

- Dividing the total by each number in the ratio (40 ÷ 3, 40 ÷ 5 …).
- Sharing the amount you know as if it were the total.
- Forgetting to add the parts first.
- Using the wrong number of parts for a difference.
- Three people? Add all three numbers: 2 : 5 : 3 is 10 parts.