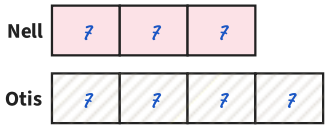
Ratio: One Share or the Difference

ANSWERS

1

Nell and Otis share sweets in the ratio 3 : 4. Otis gets 28 sweets.
How many does Nell get?



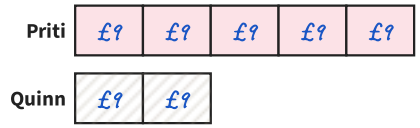
4 parts = 28

1 part = 7

Nell 21 sweets

2

Priti and Quinn share some money in the ratio 5 : 2. Quinn gets £18.
How much does Priti get?



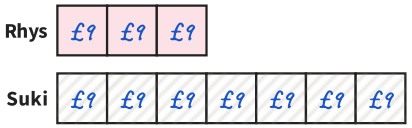
2 parts = £18

1 part = £9

Priti £45

3

Rhys and Suki share some money in the ratio 3 : 7. Rhys gets £27. How much do they share altogether?



3 parts = £27

1 part = £9

Total £90

4

Tara and Umar share stickers in the ratio 7 : 4. Tara gets 15 stickers more than Umar. How many does Umar get?



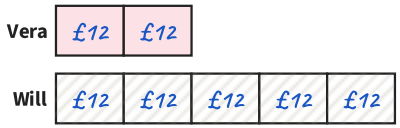
3 parts = 15

1 part = 5

Umar 20 stickers

5

Vera and Will share some money in the ratio 2 : 5. Will gets £36 more than Vera.
How much do they share altogether?



3 parts = £36, 1 part = £12

Total £84

6

Yara and Zac share some money in the ratio 5 : 1. Zac gets £12.
Leo shares £12 in the ratio 5 : 1 and says Yara gets £10.
Explain Leo's mistake. Then find how much Yara gets.

£12 is Zac's share, 1 part = £12, 5 × 12

Answer £60

7

A bag has red, green and blue counters in the ratio 4 : 1 : 3.
There are 6 green counters.
How many counters are in the bag altogether?

1 part = 6, 4 + 1 + 3 = 8 parts

Answer 48 counters

8

A fruit drink is made from orange juice and apple juice in the ratio 3 : 8.
It has 200 ml more apple juice than orange juice. How much orange juice does it have?

5 parts = 200 ml, 1 part = 40 ml

Answer 120 ml

Ratio: One Share or the Difference *further practice*

ANSWERS

9

A shelf has fiction and non fiction books in the ratio 5 : 2.
There are 14 non fiction books.
How many fiction books are there?

2 parts = 14, 1 part = 7

Answer 35 fiction books

10

A school wins gold, silver and bronze medals in the ratio 2 : 3 : 6.
It wins 20 more bronze medals than gold medals. How many silver medals does it win?

4 parts = 20, 1 part = 5

Answer 15 silver

11

For every 3 cups of water, a porridge recipe uses 2 cups of oats.
Sam uses 8 cups of oats.
How many cups of water and oats does he use altogether?

2 parts = 8, 1 part = 4,
5 parts = 20

Answer 20 cups

12

A pancake batter uses milk and flour in the ratio 3 : 2. Lola uses 250 g of flour.
How many kilograms of batter does she make?

1 part = 125 g, 5 parts = 625 g

Answer 0.625 kg

13

The angles in a triangle are in the ratio 2 : 3 : 7. The largest angle is 75° more than the smallest. Find all three angles, then check that they add up to 180°.

5 parts = 75°, 1 part = 15°

Answer 30°, 45° and 105°

14

A charity splits its money between project A and project B in the ratio 7 : 3. Project B gets £1200.
Project A needs £3000.
Does it get enough?
Show how you know.

3 parts = £1200, 1 part = £400

Answer No, A gets £2800

15

Fay and Gil share some money in the ratio 4 : 3, and Fay gets £20 more than Gil. Hal and Ivy share £126 in the ratio 4 : 3. Who gets more, Fay or Hal, and by how much?

Fay: 1 part = £20, 4 × 20 = 80,
Hal: 126 ÷ 7 × 4 = 72

Answer Fay, by £8

16

A pot holds pens and pencils in the ratio 3 : 5. Mia says there are 7 more pencils than pens. Explain why Mia must be wrong.

2 parts = 7,
you cannot have half a pen

Answer 1 part would be 3.5