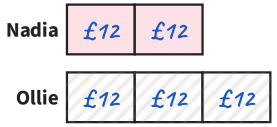
Sharing in a Ratio

ANSWERS

1

Nadia and Ollie share £60 in the ratio 2 : 3. How much does each get?



1 part = £60 ÷ 5 = £12

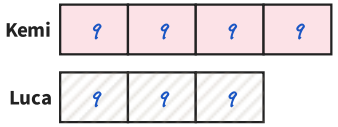
Check £24 + £36 = £60

Nadia: £24

Ollie: £36

2

Kemi and Luca share 63 sweets in the ratio 4 : 3. How much does each get?



1 part = 63 ÷ 7 = 9

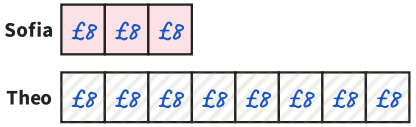
Check 36 + 27 = 63

Kemi: 36 sweets

Luca: 27 sweets

3

Sofia and Theo share £88 in the ratio 3 : 8. How much does each get?



1 part = £88 ÷ 11 = £8

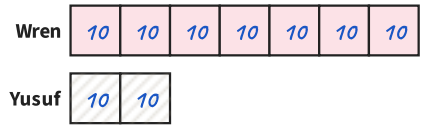
Check £24 + £64 = £88

Sofia: £24

Theo: £64

4

Wren and Yusuf share 90 cards in the ratio 7 : 2. How much does each get?



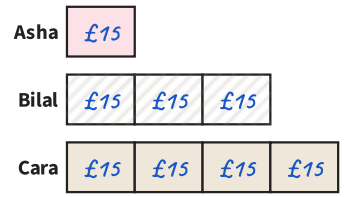
1 part = 90 ÷ 9 = 10

Wren: 70 cards

Yusuf: 20 cards

5

Asha, Bilal and Cara share £120 in the ratio 1 : 3 : 4. Draw the bars, then find how much each person gets.



1 part = £120 ÷ 8 = £15

Asha: £15

Bilal: £45

Cara: £60

6

Lily shares 28 sweets between Max and Ned in the ratio 3 : 4. She says 1 part is 28 ÷ 4 = 7, so Max gets 21 and Ned gets 28. Use a check to show that Lily is wrong. Then find the right shares.

21 + 28 = 49, not 28. 28 ÷ 7 = 4

Max: 12

Ned: 16

7

A 160 g bag of trail mix has nuts and raisins in the ratio 3 : 5.
How many grams of raisins are in the bag?

1 part = 160 ÷ 8 = 20 g

Answer: 100 g

8

A farmer plants 84 trees.
Apple, pear and plum trees are in the ratio 3 : 2 : 2. How many more apple trees than plum trees does she plant?

1 part = 84 ÷ 7 = 12, 36 − 24

Answer: 12 more

Sharing in a Ratio *further practice*

ANSWERS

9

Rosa and Sami share £84 in the ratio 5 : 7. How much does each get?

1 part = £84 ÷ 12 = £7

Rosa £35

Sami £49

10

A necklace has 2 blue beads for every 7 white beads.
It has 54 beads altogether.
How many white beads does it have?

2 : 7, 1 part = 54 ÷ 9 = 6

Answer 42 white beads

11

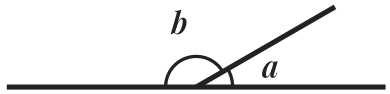
A crumble uses 1 kg of apples and pears in the ratio 3 : 2.
How many grams of pears does it use?

1 kg = 1000 g,
1 part = 1000 ÷ 5 = 200 g

Answer 400 g

12

Angles a and b are on a straight line. They are in the ratio 1 : 5. Find the size of each angle.



180 ÷ 6 = 30

a = 30°

b = 150°

13

Kim and Lou share a £75 prize in the ratio 2 : 3. Kim wants to buy a game that costs £32 with her share.
Can she? Show how you know.

1 part = £75 ÷ 5 = £15,
2 × 15 = 30

Answer No, Kim gets £30

14

Gran shares £150 between her three grandchildren in the ratio of their ages, 6 : 8 : 11. How much more does the oldest get than the youngest?

1 part = £150 ÷ 25 = £6, 66 – 36

Answer £30 more

15

Ben can have the larger share of £60 shared in the ratio 1 : 2, or the larger share of £72 shared in the ratio 3 : 5. Which should he choose, and how much more does he get?

£60 ÷ 3 × 2 = £40,
£72 ÷ 8 × 5 = £45

Answer £72 in 3 : 5, £5 more

16

Max shares £90 in the ratio 4 : 5.
He says the shares are £40 and £45.
Without sharing again, explain how you know he is wrong. Then find the right shares.

40 + 45 = 85, not 90

Answer £40 and £50