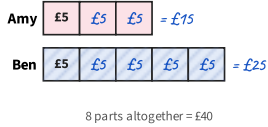


Sharing in a Ratio

ANSWERS

1

Amy and Ben share £40 in the ratio 3 : 5.
How much does each get?



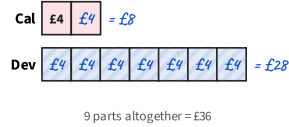
$$1 \text{ part} = £40 \div 8 = £5$$

Amy £15, Ben £25

Answer _____

2

Cal and Dev share £36 in the ratio 2 : 7.
How much does each get?



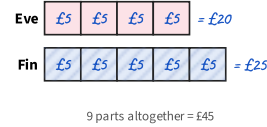
$$1 \text{ part} = £36 \div 9 = £4$$

Cal £8, Dev £28

Answer _____

3

Eve and Fin share £45 in the ratio 4 : 5.
How much does each get?



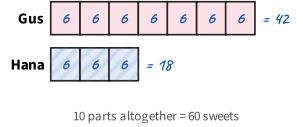
$$1 \text{ part} = £45 \div 9 = £5$$

Eve £20, Fin £25

Answer _____

4

Gus and Hana share 60 sweets in the ratio 7 : 3.
How much does each get?



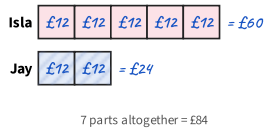
$$1 \text{ part} = 60 \text{ sweets} \div 10 = 6 \text{ sweets}$$

Gus 42 sweets, Hana 18 sweets

Answer _____

5

Isla and Jay share £84 in the ratio 5 : 2.
How much does each get?



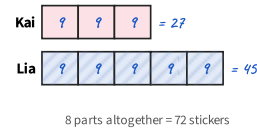
$$1 \text{ part} = £84 \div 7 = £12$$

Isla £60, Jay £24

Answer _____

6

Kai and Lia share 72 stickers in the ratio 3 : 5.
How much does each get?



$$1 \text{ part} = 72 \text{ stickers} \div 8 = 9 \text{ stickers}$$

Kai 27 stickers, Lia 45 stickers

Answer _____

7

Ana and Ben share some sweets in the ratio 3 : 5. Ben gets 20 sweets.
How many does Ana get?

$$1 \text{ part is } 20 \div 5 = 4$$

Answer 12

8

Cal and Dee share £60 in the ratio 7 : 5.
How much more does Cal get than Dee?

$$1 \text{ part is } £5, \text{ and Cal has 2 more parts}$$

Answer £10

Sharing in a Ratio further practice

ANSWERS

9

A school shares £96 between a food bank and an animal shelter in the ratio 5 : 3. How much does each get?

$$1 \text{ part} = 96 \div 8 = £12$$

Food bank £60

Shelter £36

10

Ada, Bo and Cy share £72 in the ratio 2 : 3 : 4. How much does each get?

$$1 \text{ part} = 72 \div 9 = £8$$

Answer Ada £16, Bo £24, Cy £32

11

For every 2 cups of rice, Jo uses 3 cups of water. She uses 15 cups of rice and water altogether. How many cups of water does she use?

$$5 \text{ parts} = 15 \text{ cups}, 1 \text{ part} = 3 \text{ cups}$$

Answer 9 cups

12

A plank 3 m long is cut into two pieces in the ratio 7 : 8. How long is each piece in centimetres?

$$3 \text{ m} = 300 \text{ cm}, 1 \text{ part} = 300 \div 15 = 20 \text{ cm}$$

Answer 140 cm and 160 cm

13

A school has £1200 to spend on equipment. It shares the money between maths and science in the ratio 5 : 3. A set of calculators costs £700. Is the maths share enough to buy them? Show how you know.

$$1 \text{ part} = 1200 \div 8 = £150, 5 \times 150 = 750$$

Answer Yes, maths gets £750

14

The angles in a triangle are in the ratio 3 : 4 : 5. Work out the size of the largest angle.

$$\text{angles add to } 180^\circ, 1 \text{ part} = 180 \div 12 = 15^\circ$$

Answer 75°

15

A bag holds red, blue and yellow beads in the ratio 6 : 2 : 3. There are 12 more red beads than blue beads. How many beads are in the bag altogether?

$$4 \text{ parts} = 12, 1 \text{ part} = 3, 11 \text{ parts} = 33$$

Answer 33 beads

16

Tia wants to share 50 stickers between two friends in the ratio 3 : 4 without cutting any stickers. Can she? Explain.

$$3 + 4 = 7 \text{ parts}, 50 \text{ is not a multiple of } 7$$

Answer No