

Sharing in a Ratio

ANSWERS

1

Share £20 in the ratio 1 : 3.

Amy 5

Ben 5 5 5

$$\text{Parts} = 1 + 3 = 4$$

$$1 \text{ part} = £20 \div 4 = £5$$

Amy £5 Ben £15

2

Share £25 in the ratio 2 : 3.

Cal 5 5

Dev 5 5 5

$$\text{Parts} = 2 + 3 = 5$$

$$1 \text{ part} = £25 \div 5 = £5$$

Cal £10 Dev £15

3

Share £12 in the ratio 3 : 1.

Eve 3 3 3

Fin 3

$$\text{Parts} = 3 + 1 = 4$$

$$1 \text{ part} = £12 \div 4 = £3$$

Eve £9 Fin £3

4

Share £50 in the ratio 1 : 4.

Gus 10

Ivy 10 10 10 10

$$\text{Parts} = 1 + 4 = 5$$

$$1 \text{ part} = £50 \div 5 = £10$$

Gus £10 Ivy £40

5

Share £35 in the ratio 2 : 5.

Jo 5 5

Kai 5 5 5 5 5

$$\text{Parts} = 2 + 5 = 7$$

$$1 \text{ part} = £35 \div 7 = £5$$

Jo £10 Kai £25

6

Share £18 in the ratio 5 : 1.

Lia 3 3 3 3 3

Max 3

$$\text{Parts} = 5 + 1 = 6$$

$$1 \text{ part} = £18 \div 6 = £3$$

Lia £15 Max £3

7

Share 32 stickers in the ratio 3 : 5.
How many does Sam get?

Ola 4 4 4

Sam 4 4 4 4 4

$$\text{Parts} = 3 + 5 = 8$$

$$1 \text{ part} = 32 \div 8 = 4$$

Ola 12 Sam 20

8

Share £28 in the ratio the bars show.

Tom 4 4 4

Zoe 4 4 4 4

$$\text{Parts} = 3 + 4 = 7$$

$$1 \text{ part} = £28 \div 7 = £4$$

Tom £12 Zoe £16

Sharing in a Ratio *further practice*

ANSWERS

9

Share £40 in the ratio 3 : 5.

Ava

5	5	5					
---	---	---	--	--	--	--	--

Kit

5	5	5	5	5			
---	---	---	---	---	--	--	--

Parts =

3

 +

5

 =

8

1 part = $\pounds 40 \div 8 = \pounds 5$

Ava

£15

 Kit

£25

10

Share £42 in the ratio 4 : 3.

Ned

6	6	6	6				
---	---	---	---	--	--	--	--

Pip

6	6	6					
---	---	---	--	--	--	--	--

Parts =

4

 +

3

 =

7

1 part = $\pounds 42 \div 7 = \pounds 6$

Ned

£24

 Pip

£18

11

A class has 27 students.
The ratio of boys to girls is 4 : 5.
How many girls are there?

Boys

3	3	3	3				
---	---	---	---	--	--	--	--

Girls

3	3	3	3	3			
---	---	---	---	---	--	--	--

Parts =

4

 +

5

 =

9

1 part = $27 \div 9 = 3$

Boys

12

 Girls

15

12

Share 48 cards in the ratio 1 : 7.
How many does Bea get?

Ali

6							
---	--	--	--	--	--	--	--

Bea

6	6	6	6	6	6	6	6
---	---	---	---	---	---	---	---

Parts =

1

 +

7

 =

8

1 part = $48 \div 8 = 6$

Ali

6

 Bea

42

13

Share £60 in the ratio 7 : 3.

Dan

6	6	6	6	6	6	6	
---	---	---	---	---	---	---	--

Eli

6	6	6					
---	---	---	--	--	--	--	--

$$7 + 3 = 10$$

$$60 \div 10 = 6$$

Dan £42, Eli £18

Answer £42 and £18

14

Share 45 marbles in the ratio 4 : 5.
How many more does Gil get?

Fay

5	5	5	5				
---	---	---	---	--	--	--	--

Gil

5	5	5	5	5			
---	---	---	---	---	--	--	--

$$4 + 5 = 9$$

$$45 \div 9 = 5$$

Fay 20, Gil 25, $25 - 20 = 5$

Answer 5 more

15

Hal and Ivo share sweets in the ratio 1 : 4. Hal gets 6.
How many does Ivo get?

Hal

6							
---	--	--	--	--	--	--	--

Ivo

6	6	6	6				
---	---	---	---	--	--	--	--

One part is 6.

$$6 \times 4 = 24$$

Answer 24 sweets

16

Share £30 in the ratio 2 : 3.
Raj says Jo gets $30 \div 2 = \pounds 15$.
What has he done wrong?

Jo

6	6						
---	---	--	--	--	--	--	--

Kim

6	6	6					
---	---	---	--	--	--	--	--

Raj should divide by

all the parts. $2 + 3 = 5$

$$30 \div 5 = 6, \text{ so } \pounds 12 \text{ and } \pounds 18$$

Right answer £12 and £18