

Interleaved: sharing in a ratio

1

Share £60 between Ana and Ben in the ratio 2 : 3.



Which method? ☒ Share a total
☐ One part known ☐ Difference known
£60 is the total: 5 parts, £12 a part

Answer *Ana £24, Ben £36*

2

Red and blue beads are in the ratio 3 : 7. There are 28 more blue beads than red beads. How many red beads are there?

Which method? ☐ Share a total
☐ One part known ☒ Difference known

Answer _____

3

Squash and water are mixed in the ratio 2 : 5. Ella uses 150 ml of squash. How much water does she use?

Which method? ☐ Share a total
☐ One part known ☐ Difference known

Answer _____

4

£840 is shared between three charities in the ratio 1 : 2 : 4. How much does the largest share get?

Which method? ☐ Share a total
☐ One part known ☐ Difference known

Answer _____

5

Boys and girls in a year group are in the ratio 4 : 5. There are 45 girls. How many students are there altogether?

Which method? ☐ Share a total
☐ One part known ☐ Difference known

Answer _____

6

Kai and Lu share some money in the ratio 5 : 2. Kai gets £45 more than Lu. How much money is there altogether?

Which method? ☐ Share a total
☐ One part known ☐ Difference known

Answer _____

7

Cement and sand are mixed in the ratio 1 : 4 to make 35 kg of mortar. How much sand is used?

Which method? ☐ Share a total
☐ One part known ☐ Difference known

Answer _____

8

Cats and dogs at a rescue centre are in the ratio 3 : 8. There are 24 dogs. How many cats are there?

Which method? ☐ Share a total
☐ One part known ☐ Difference known

Answer _____

Interleaved: sharing in a ratio *further practice*

9

A team won gold and silver medals in the ratio 2 : 5. They won 12 more silver medals than gold. How many medals did they win altogether?

Answer _____

10

A plank 2.4 m long is cut into two pieces in the ratio 5 : 3. How long is the shorter piece, in centimetres?

Answer _____

11

Flour, butter and sugar are mixed in the ratio 6 : 3 : 2. Dev uses 450 g of flour. How much sugar does he use?

Answer _____

12

The ages of Sam and his grandad are in the ratio 2 : 9. His grandad is 56 years older than Sam. How old is Sam?

Answer _____

13

Fiction and non fiction books in a library are in the ratio 7 : 4. There are 48 non fiction books. How many books are there altogether?

Answer _____

14

Three friends share a prize of £1500 in the ratio 2 : 3 : 7. How much more does the largest share get than the smallest?

Answer _____

15

Two numbers are in the ratio 4 : 9. Their difference is 35. Find their sum.

Answer _____

16

Paint is mixed blue to white in the ratio 2 : 3. Zoe has 12 litres of white paint. She says she needs $12 \div 5 \times 2 = 4.8$ litres of blue. Explain her mistake and find the right amount.

Answer _____