

Y6 Unequal Sharing Grouping

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Share £40 in the ratio 3 : 5.

Step 1 · Total parts

$$3 + 5 = 8$$

Step 2 · Value of 1 part

$$£40 \div 8 = £5$$

Step 3 · Each share

$$3 \times £5 = £15 \text{ and } 5 \times £5 = £25$$

Answer: £15 and £25

Check: $£15 + £25 = £40$ ✓

2. Now try one with the steps

56 sweets are shared so that Amy gets 3 times How many does each get?

Step 1 · Raj : Amy = 1 : 3

Step 2 · 1 part: $56 \div 4$

Step 3 · Amy: 3×14

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. Share £60 in the ratio 1 : 2.

2. Share 24 sweets in the ratio 1 : 3.

3. Share 35 marbles in the ratio 2 : 5.

4. Share £72 in the ratio 3 : 1.

5. There are 45 children in a club. Boys and girls are in the ratio 4 : 5. How many girls are there?

6. Squash and water are mixed in the ratio 1 : 4 to make 1,000 ml of drink. How much squash is used?

7. Tom and Ali share £84 so that Ali gets 6 times How much does Tom get?

8. A seed mix has 2 sunflower seeds for every 5 poppy seeds. There are 63 seeds. How many are sunflower seeds?

9. Cement and sand are mixed in the ratio 1 : 3. How much cement is in 20 kg of the mix?

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

11. Red and green counters are in the ratio 5 : 3. There are 15 red counters. How many counters are there altogether?

12. Kat is 3 times brother. Their ages add up to 48. How old is Kat?

13. Packs of pens each have 2 blue and 3 black pens. A teacher has 40 pens from these packs. How many are black?

14. Share £1,000 in the ratio 7 : 3.

15. Two numbers are in the ratio 4 : 9. Their difference is 35. What are the numbers?

4. Before you hand it in

Sharing £40 in the ratio 3 : 5 as £20 and £20.

A ratio of 3 : 5 means unequal shares. Find the total parts (8), the value of one part (£5), then multiply: £15 and £25.

Sharing £40 in the ratio 3 : 5 by dividing by 3 and by 5.

Divide by the total number of parts, $3 + 5 = 8$.

For cats : dogs = 2 : 5 with 12 more dogs, dividing 12 by 7.

The difference is $5 - 2 = 3$ parts, so 1 part = $12 \div 3 = 4$.