



# Simple Ratios of Quantities

1. Share 50 in the ratio 2:3.
2. Share 800 in the ratio 9:7.
3. Share 40 in the ratio 1:3:6.
4. Share £770 in the ratio 4:7.
5. Share 1kg in the ratio 4:6.
6. Share 6m in the ratio 7:3:5.
7. Jolene makes a pattern out of beads. She uses only red and silver beads in the ratio 5:1. How many red beads will she need for a pattern with 30 beads in it?



8. Caron has a bag of 44 marbles. She shares them with Kelsie in the ratio 1:3. Caron keeps the larger share for herself. How many marbles does she give to Kelsie?
9. James makes pastry. He uses flour to butter in the ratio 2:1. The total mass of his pastry is 600g. What quantities of flour and butter did he use?
10. Zack and Kenny are waiters in a restaurant. The total amount of tips they receive at the end of the week is £126.90. Zack worked 5 nights and Kenny worked 4 nights. They decide to split the tips by the ratio of the nights they worked. How much do they get each?



# Simple Ratios of Quantities **Answers**

1. Share 50 in the ratio 2:3.

$$2 + 3 = 5$$

$$50 \div 5 = 10$$

$$\mathbf{20:30}$$

2. Share 800 in the ratio 9:7.

$$9 + 7 = 16$$

$$800 \div 16 = 50$$

$$\mathbf{450:350}$$

3. Share 40 in the ratio 1:3:6.

$$1 + 3 + 6 = 10$$

$$40 \div 10 = 4$$

$$\mathbf{4:12:24}$$

4. Share £770 in the ratio 4:7.

$$4 + 7 = 11$$

$$770 \div 11 = \mathbf{£70}$$

$$\mathbf{£280:£490}$$

5. Share 1kg in the ratio 4:6.

$$4 + 6 = 10$$

$$1 \div 10 = \mathbf{0.1kg \text{ or } 100g}$$

$$\mathbf{0.4kg:0.6kg \text{ or } 400g:600g}$$

6. Share 6m in the ratio 7:3:5.

$$7 + 3 + 5 = 15$$

$$6 \div 15 = \mathbf{0.4m \text{ or } 40cm}$$

$$\mathbf{2.8m:1.2m:2m \text{ or } 280cm:120cm:200cm}$$

7. Jolene makes a pattern out of beads. She uses only red and silver beads in the ratio 5:1. How many red beads will she need for a pattern with 30 beads in it?

$$5 + 1 = 6$$

$$30 \div 6 = \mathbf{5 \text{ beads}}$$

$$5 \times 5 = \mathbf{25 \text{ red beads}}$$



8. Caron has a bag of 44 marbles. She shares them with Kelsie in the ratio 1:3. Caron keeps the larger share for herself. How many marbles does she give to Kelsie?

$$1 + 3 = 4$$

$$44 \div 4 = 11 \text{ marbles}$$

**Caron gives Kelsie 11 marbles.**

9. James makes pastry. He uses flour to butter in the ratio 2:1. The total mass of his pastry is 600g. What quantities of flour and butter did he use?

$$2 + 1 = 3$$

$$600 \div 3 = 200\text{g}$$

$$\text{Flour} = 2 \times 200 = 400\text{g}$$

$$\text{Butter} = 1 \times 200 = 200\text{g}$$

10. Zack and Kenny are waiters in a restaurant. The total amount of tips they receive at the end of the week is £126.90. Zack worked 5 nights and Kenny worked 4 nights. They decide to split the tips by the ratio of the nights they worked. How much do they get each?

$$5 + 4 = 9$$

$$£126.90 \div 9 = £14.10$$

$$\text{Zack} = 5 \times £14.10 = £70.50$$

$$\text{Kenny} = 4 \times £14.10 = £56.40$$