

Sharing to a Given Ratio

- Q1 Share £36 in the following ratios.
a) 1 : 2 b) 1 : 3 c) 1 : 8
- Q2 Share £24 in the following ratios.
a) 1 : 2 b) 1 : 3 c) 1 : 5
- Q3 Divide 120 g in the following ratios.
a) 3 : 5 b) 7 : 8 c) 9 : 11
- Q4 Divide £30 among two people so that their shares are in the ratio 2 : 3.
- Q5 The perimeter of a triangle is 45 cm.
The lengths of the sides are in the ratio 4 : 3 : 2.
Find the lengths of the three sides of the triangle.
- Q6 Divide 6 m of rope into lengths in the ratio 2 : 7 : 3.
- Q7 Gavin and Rebecca share £1500 in the ratio 3 : 7.
How much does each person get?
- Q8 Michelle and Yasmina invest £5000 and £7000 respectively in a business venture and agree to share the profits in the ratio of their investment.
They make a profit of £48 000 in the first year.

How much does Yasmina earn?
- Q9 A can of purple paint is made from blue and red paint.
Altogether, the capacity of the can is 175 ml.
The ratio of the capacity of blue paint to the capacity of red paint is 2 : 5.

What is the capacity of the blue paint?
- Q10 To make mortar you mix sand and cement in the ratio 4 : 1.
a) How much sand is needed to make 35 kg of mortar?
b) What fraction of the mix is cement?



Q1 a) 12 : 24 b) 9 : 27 c) 4 : 32

Q2 a) 8 : 16 b) 6 : 18 c) 4 : 20

Q3 Divide 120 g in the following ratios.

 a) 45 : 75 b) 56 : 64 c) 54 : 66

Q4 12 : 18

Q5 20 : 15 : 10

Q6 1 m : 3.5 m : 1.5 m

Q7 £450 : £1050

Q8 £28 000

Q9 50 ml

Q10 a) 7 kg b) $\frac{1}{5}$