

Ratios



i. Simplify the following ratios as far as possible:

- 2 : 6
- 8 : 4
- 7 : 12
- 5 : 20
- 21 : 35
- 125 : 25

ii. Split £48 into the following ratios:

- 1 : 7
- 1 : 2
- 7 : 5
- 3 : 5
- 17 : 7
- 1 : 3 : 6

iii. Here are the ingredients that make 8 blueberry muffins.

Blueberry Muffins (Makes 8)
50ml milk
1 egg
120g flour
110g butter
50g castor sugar
50g blueberries

- Jack wants to make 24 muffins. Work out how much milk he needs.
- Alison only has 25g of blueberries. How many muffins could she make?

iv. There are some sweets in a bag.

18 of sweets are toffees 12 of the sweets are mints.

Write down the ratio of number of toffees to the number of mints. Give the ratio in its simplest form.

v. A piece of wood is 1.8m long.

Tom cuts it into three pieces in the ratio 2 : 3 : 4.

Work out the length of the longest piece, giving your answer in cm.

vi. A box of chocolates contains a mixture of milk and dark chocolates.

The ratio of the number of milk chocolates to the number of dark chocolates is 2 : 1.

There are 24 milk chocolates. Work out the total number of chocolates in the box.

vii. Colin, Dave and Emma share some money. Colin gets $\frac{3}{10}$ of the money.

Emma and Dave share the rest of the money in the ratio 3 : 2.

What was Dave's share of the money?