

## Solving Ratio Problems

(a) There are 40 flowers in a shop, a mixture of roses and tulips. If there are 12 tulips, write the ratio of roses to tulips in its simplest form.

(b) There are boursbons and digestives in a jar. There are 36 biscuits in total. If 10 of the biscuits are boursbons, find the ratio of boursbons to digestives in its simplest form.

(c) There are 40 socks in a drawer, either black or grey. If  $\frac{3}{4}$  of the socks are black, write the ratio of black socks to grey socks in its simplest form.

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(a) The ratio of circles to squares is 6 : 1. If there are 5 squares, how many circles are there?

(b) At the gym, the ratio of men to women is 7 : 3. If there are 35 men, how many women are there?

(c) On a washing line there are t-shirts and jumpers in the ratio 2 : 3. If there are 21 jumpers, how many t-shirts are there?

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(a) The ratio of dogs to cats is 4 : 1. If there are 5 cats, how many animals are there in total?

(b) A café sells cups of tea and coffee in the ratio 8 : 3. On Tuesday the café sells 72 cups of coffee. How many cups of tea and coffee did they sell in total that day?

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(a) Bill has a total of 50 black or white counters. If there are 3 black counters for every 2 white counters, how many black counters are there?

(b) Maryam eats bananas and apples in the ratio 5 : 2. Last week she ate 8 apples. How many bananas did she eat?

(c) A packet contains lime or lemon flavour sweets in the ratio 2 : 7. If there are 36 sweets in total, how many are lemon flavour?

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