Combining Ratios

193

Name:





1) Find the ratio a:c if:

a) The ratio of a:b is 5:1 and the ratio of b:c is 2:5

b) The ratio of a: b is 4:5 and the ratio of b:c is 3:4

c) The ratio of a:b is 5:2 and the ratio of b:c is 3:7

d) The ratio of a:b is 8:3 and the ratio of b:c is 5:4

e) The ratio of a:b is 7:2 and the ratio of b:c is 9:4 10:5 = 2:1

12:20 = 3:5

15:14

40:12 = 10:3

63:8

2) In each case, there are 6000 buttons in the colours blue, red and green:

a) The ratio of red: blue is 4:1and the ratio of blue: green is 2:5How many blue buttons are there?

800

b) The ratio of blue: red is 5:3 and the ratio of red: green is 1:4 How many red buttons are there?

1500

c) The ratio of red: green is 3:2 and the ratio of green: blue is 1:5 How many blue buttons are there?

4000

3) Calculate the total number of buttons if:

a) the ratio of red: blue is 5:1, the ratio of blue: green is 2:3 and there are 49 more reds than green?

105

b) the ratio of red: blue is 3:5, the ratio of blue: green is 3:4 and there are 88 more greens than reds?

352

Exam question:

The ratio of mice to cats is 8:3
The ratio of cats to dogs is 2:5
There are 75 dogs.

How many animals are there in total?

185

