

1. At the supermarket Sam checked the number of cartons of grape juice.
One box had 20 cartons in a ratio of white juice cartons to red juice cartons of 3:2.
The other box had only 10 red juice cartons.
What was the ratio of white to red cartons overall?



2. Two buses had different numbers of male and female students.
Bus 1 had a ratio of males to females of 3:2.
Bus 2 had a ratio of males to females of 2:3.
In total the combined ratio of males to females was 7:8.
Which bus had the most students on it?
How many students were on each bus?



3. There are two bags of marbles.
One bag has 40% of large marbles. The rest of the marbles are small.
The other bag has 10% of large marbles and 90% small marbles.
The percentages of large to small marbles are 20% and 80% if the bags are combined.
If the smaller bag has 50 marbles, how many marbles are in the larger bag?



4. The ratio of guppies to other tropical fish in the tank is 2:3.
How many guppies should you take from the tank, so the ratio is 1:5?

Give at least 3 possible answers.

