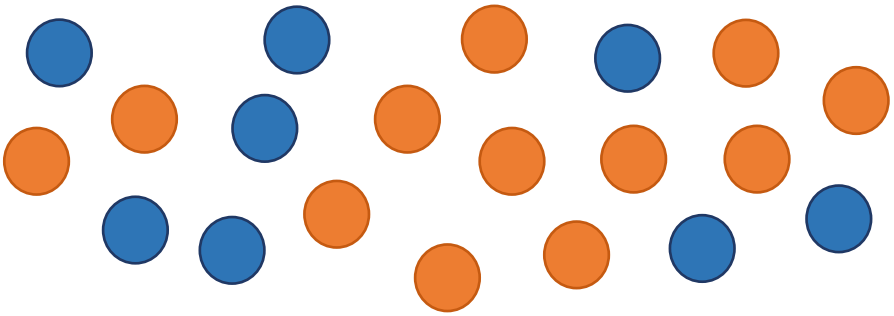
Ratio and proportion

1)



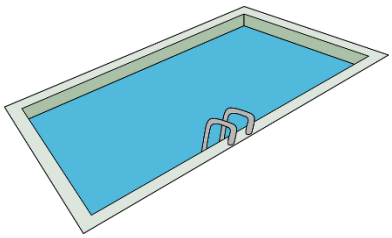
- The ratio of blue circles to orange circles is _____ : _____
- For every 2 blue circles there will be _____ orange circles

Write your own statements:

- For every _____blue circles there will be _____ orange circles
- For every _____ blue circles there will be _____ orange circles
- The proportion of blue circles is _____ out of _____. As a fraction this is: —
- The proportion of orange circles is _12___ out of __20___. As a fraction this is: —

2) One third of the sweets in a box are mints. The rest are chocolates. What is the ratio of mints to chocolates in the box? ____ : ____

3) There are 5 girls for every 6 boys at a swimming pool. If there are 18 boys, how many girls are there? _____



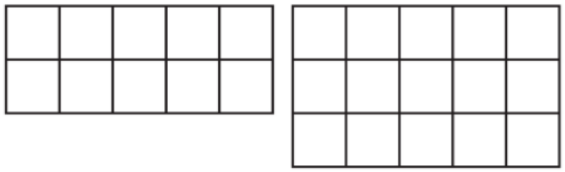
4) Simplify the ratios giving your answer in its simplest form:

a) 120 : 60 ___ : ___
b) 2.8 : 4.2 ___ : ___
c) 80: 48 ___ : ___

5) Pete is painting his house. He has mixed a green paint by combining tins of yellow paint with tins of blue paint. To get the shade he wants, he needs two yellow tins for every one blue tin. We could say that the ratio is 2:1 (yellow tins to blue). If Pete had 6 yellow tins of paint, how many tins of blue paint would he need to keep the shade the same? _____

6)

Colour 3 blue to 2 red



7) For every 2 adults on the bus there are 5 children. There are 6 adults on the bus. How many children are there? _____

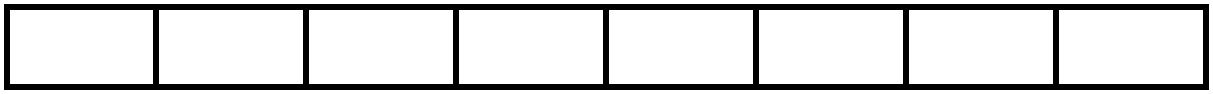
8) In a pack of balloons, there are 3 different colours: red, blue and green. The ratio is 5:2:1 (red: blue: green). If there are 8 blue balloons in the pack, how many balloons are there in total? _____

9) Amy has some toy cars and barbies. The ratio of toy cars to barbies is 5: 1.

a) What fraction of the toys are barbies? —

b) What fraction of the toys are cars? —

10) Shade in 25% of this bar.



What is the ratio of shaded to non-shaded parts? _____ : _____

What is the proportion of shaded parts in its simplest form? —