

## Ratio Calculations

- The ratio of boys to girls in a class is 3 : 4.  
If there are 12 boys in the class, how many girls would there be?
- The ratio of orange to green sweets in a bag is 2 : 5.  
If there are 36 orange sweets, how many green sweets would there be?
- To make concrete, water (l) and cement (kg) must be mixed in the ratio 3 : 1.  
How much cement would you need for 18 litres of water?
 
- The ratio of white paint to red paint required to make pink is 5 : 3.
  - How much red paint would you need to mix with
    - 15l of white
    - 40l of white
    - 85l of white
    - 12.5l of white
  - How much white paint would be needed for
    - 9l of red
    - 24l of red
    - 18l of red
    - 4.5l of red
- The ratio of Xbox to PlayStation to Nintendo games consoles owned in a survey was 3 : 4 : 1
  - If 20 people owned a PlayStation, how many would own the others?
  - If 90 people owned an Xbox, how many owned the others?
  - If 4 people owned Nintendo, how many owned PlayStation and Xbox?
- The ratio of cats to dogs in a vet on average is 3 : 7.
  - 18 cats were treated one day.  
How many dogs were at the vet?
  - 28 dogs were treated another day.  
How many cats were treated?
  - In one day 40 cats and dogs were treated.  
How many of each were there?
- The ratio of iPhone to Samsung phone in a room is 6 : 5.
  - If 20 people own a Samsung, how many own an iPhone?
  - If 42 people owned an iPhone, how many would own a Samsung?
  - In a room there were a total of 33 phones.  
How many of each were there?