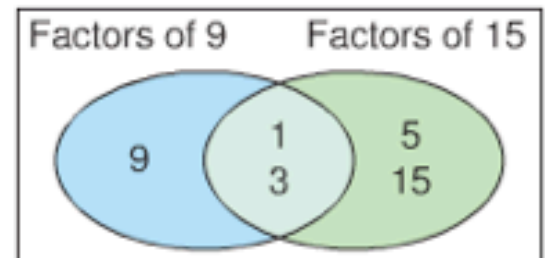


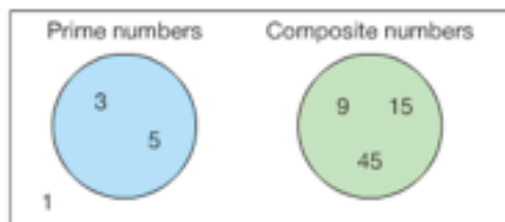
Factors

- factors are numbers that multiply to give another number;
- Prime # - only has 2 factors (1 & itself)
- Compositie # - has 3 or more factors
- there are different ways to get prime factors

Venn diagram of prime factors



The factors of 45 are: 1, 3, 5, 9, 15, 45
Some of the factors are prime numbers.
We can sort the factors:



Rainbow Method



Division Method

$$\begin{array}{r} 15 \\ 3 \overline{) 45} \\ \underline{30} \\ 15 \\ 3 \overline{) 15} \\ \underline{15} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \\ 3 \overline{) 15} \\ \underline{15} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 5 \overline{) 5} \\ \underline{5} \\ 0 \end{array}$$

Factor Tree

