3: Factor

1. Factor
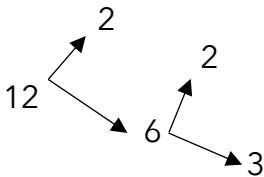
1. Factor of 12:

   Technique: List from 1 and pair it with corresponding factor, go up until both columns meet

   1   12
   2   6
   3   4

2. Prime Factor of 12:

   Technique: get 2 or 3 out first by using tree diagram

   Hence, prime factor of 12 is: $2^2 \times 3$

2. Highest Common Factor (HCF)

E.g. Find HCF of 36 and 90

Technique: 1. find common factor
(any, does not have to be lowest)

2. Until it cannot divide anymore
3. multiply the right column to get HCF

Common factor

2	36	90
3	18	30
3	6	10
	2	**5**

Cannot divide anymore

HCF: 2x3x3 = 18