## Match the following:

S/no	Column A	Column B		
1	47	2 x 2 x 11 x 2		
2	18	2 x 2 x 5 x 3		
3	46	2 x 5 x 2 x 5		
4	55	2 x 2 x 2 x 2 x 2 x 3		
5	60	2 x 3 x 3		
6	100	2 x 23		
7	88	47 x 1		
8	96	11 x 5		

Answer the following questions:

1)	Expressing a	number	as pr	oduct	of	prime
	numbers is _					_•

- The numbers that have only \_\_\_\_\_\_ factors are prime numbers.
- If the numbers have more than two factors ,they are \_\_\_\_\_ numbers.
- 4) Choose the prime factors of 20 10, 2, 5, 1.
- 5) The non prime factors of 30 are

- 6) The prime factors of number 50 are 2 and 5. True/false?
- 7) What is the purpose of prime factorization? Why do we need to do prime factorization?

## Fill in the blank:

- 1) 2 x 2 x 2 is the PF of \_\_\_\_\_\_.
- A number is expressed as 3 x 4 x 2 x 2. Is this expressed in correct format. Justify

The prime factorization of 100 can be given in methods: True or False. Justify

 A prime factorization is :- giving only the prime factors of the number. Correct or Wrong. Justify. 5) If your answer is correct for Q4, then prime factorization of 20 is 2 x 5. Is this true? Why?

- Choose the correct prime factorization for 30: (Give your explanation whether it is right or wrong)
  - a) 2 x 15 x 1:
  - b) 3 x 2 x 5: