

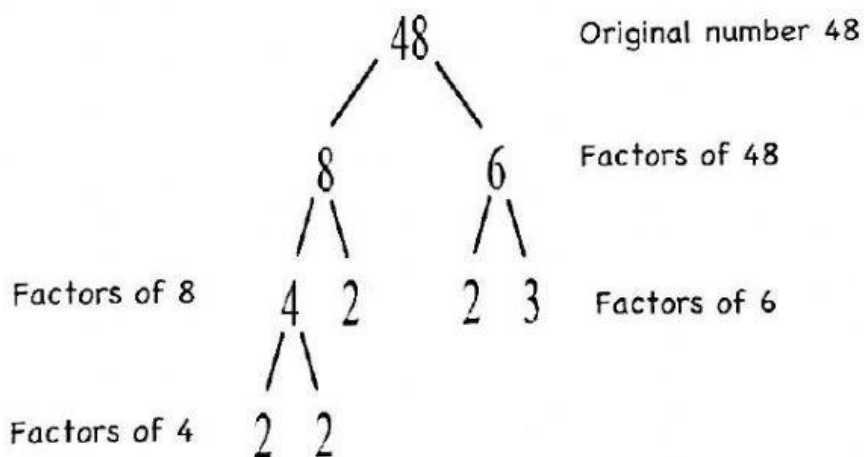
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## Prime factors

- \* Prime factors of a number are the factors that are \_\_\_\_\_.
- \* Example:  $3 \times 4 = 12$ 
  - ❖ Both 3 and 4 are factors of 12.
  - ❖ 3 is a \_\_\_\_\_ factor of 12 because 3 is a prime number.
  - ❖ 4 is NOT a prime factor of 12 because 4 is NOT a prime number.

## Prime factorization tree

- ❖ Prime factorization tree is a \_\_\_\_\_ to find a list of a given number's prime factors.

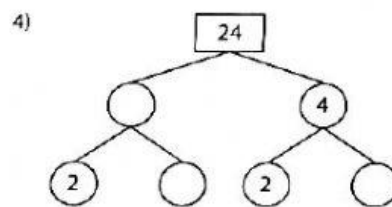
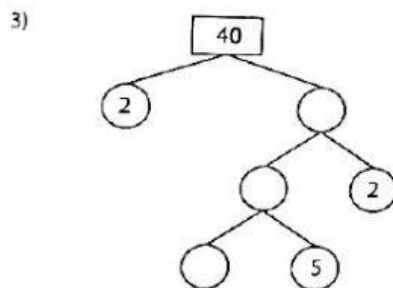
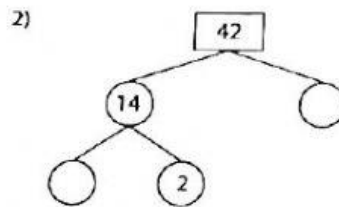
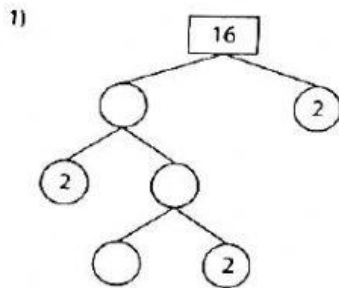


- ❖ Stop the process when we have found ALL the prime factors.
- ❖  $48 = 2 \times 2 \times 2 \times 2 \times 3$
- ❖ (or  $48 = 2^4 \times 3$ )

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## DO NOW!

1. Complete the prime factor tree for each number.



2. Draw a prime factor tree for each number.

(1) 12

(2) 32

(3) 40

(4) 28