

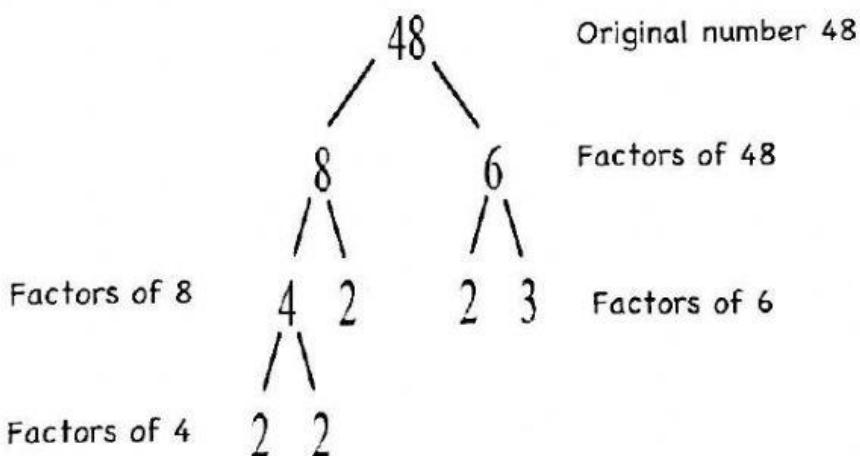
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Prime factors

- * Prime factors of a number are the factors that are prime numbers.
- * Example: $3 \times 4 = 12$
 - ❖ Both 3 and 4 are factors of 12.
 - ❖ 3 is a prime 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 tree diagram to find a list of a given number's prime factors.



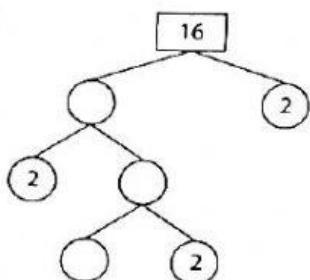
- ❖ Stop the process when we have found ALL the prime factors.
- ❖ $48 = 2 \times 2 \times 2 \times 2 \times 3$
- ❖ (or $48 = 2^4 \times 3$)

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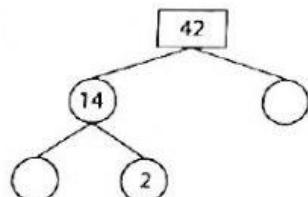
DO NOW!

1. Complete the prime factor tree for each number.

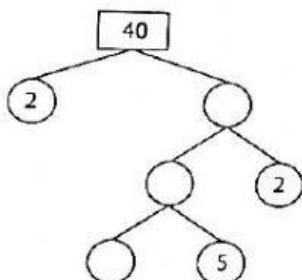
1)



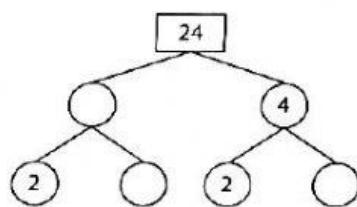
2)



3)



4)



2. Draw a prime factor tree for each number.

(1) 12

(2) 32

(3) 40

(4) 28