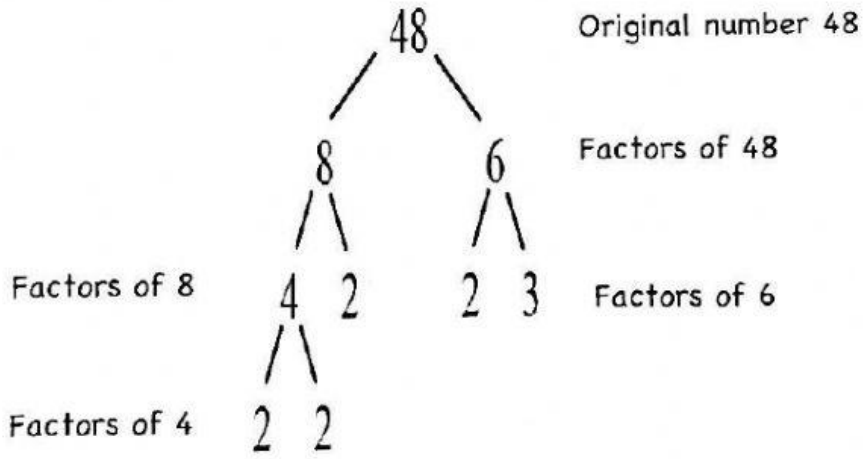
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Prime factors

* 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 $48 = 2^4 \times 3$)

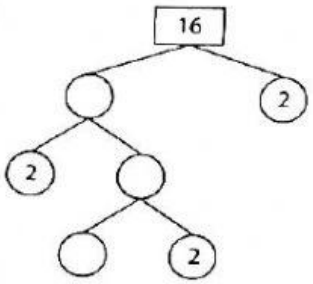
LIVEWORKSHEETS

Name/Nombre: _____ Date/Fecha: _____

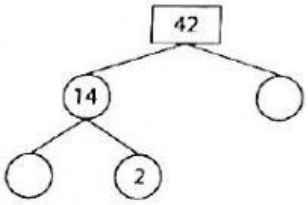
DO NOW!

1. Complete the prime factor tree for each number.

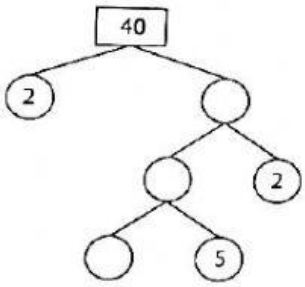
1)



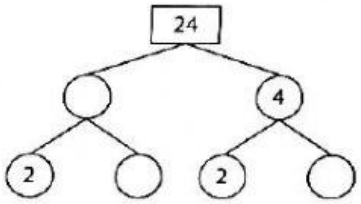
2)



3)



4)



2. Draw a prime factor tree for each number.

(1) 12

(2) 32

(3) 40

(4) 28

LIVEWORKSHEETS