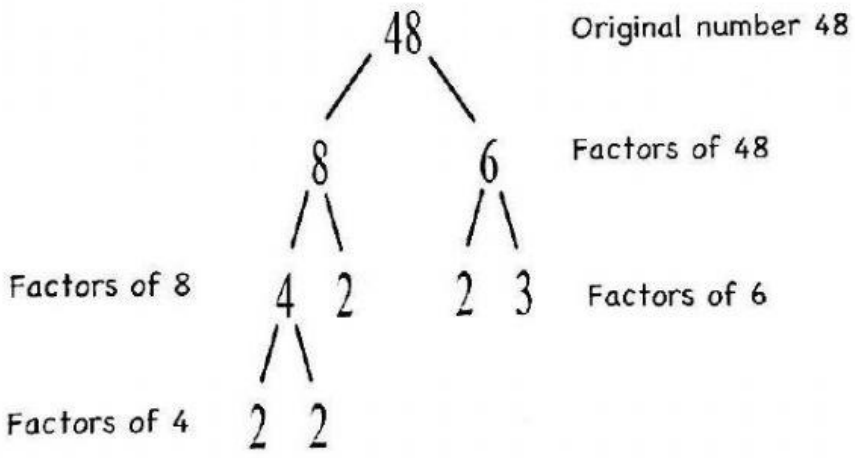
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Prime factors

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

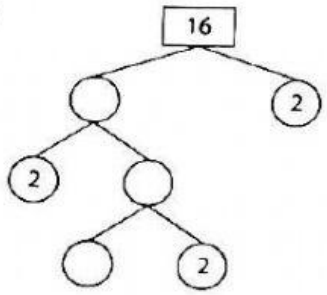
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DO NOW!

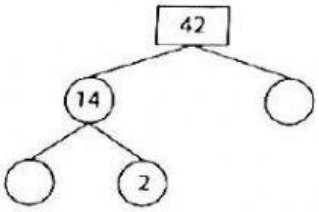
1. Complete the prime factor tree for each number.

1)



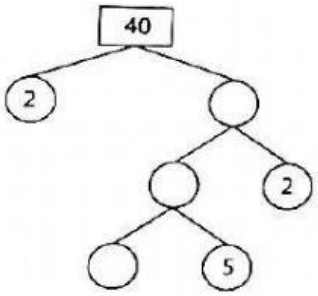
16= ___x ___ x ___x ___ x ___ x ___

2)



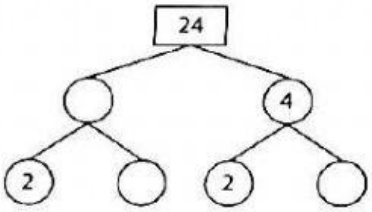
42= ___x ___ x ___x ___

3)



40= ___x ___ x ___x ___ x ___ x ___

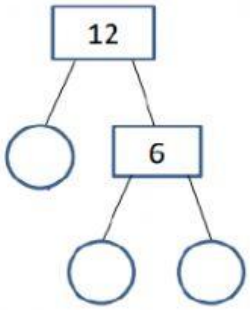
4)



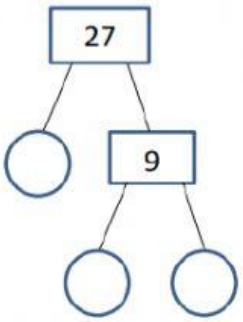
24= ___x ___ x ___x ___ x ___ x ___

2. Draw a prime factor tree for each number.

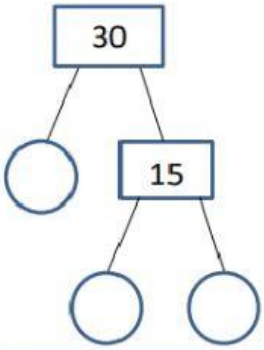
(1) 12 = ___x ___ x ___x ___



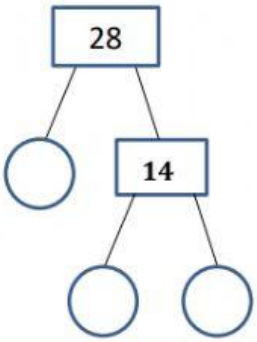
(2) 27 = ___x ___ x ___x ___



(3) 30 = ___x ___ x ___x ___



(4) 28 = ___x ___ x ___x ___



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