

1.4 (textbook pg 26)

Prime Factorization

"Factor Pair" is two whole numbers other than zero that are multiplied together to get a product.

Ex: $2 \times 5 = 10$, the pair 2,5 is a factor pair of 10

"Prime Factorization" is finding which prime numbers multiply together to make the original number.

Remember:

A PRIME number is a whole number greater than 1 with exactly two factors, 1 and itself.

Ex. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, ...

Remember:

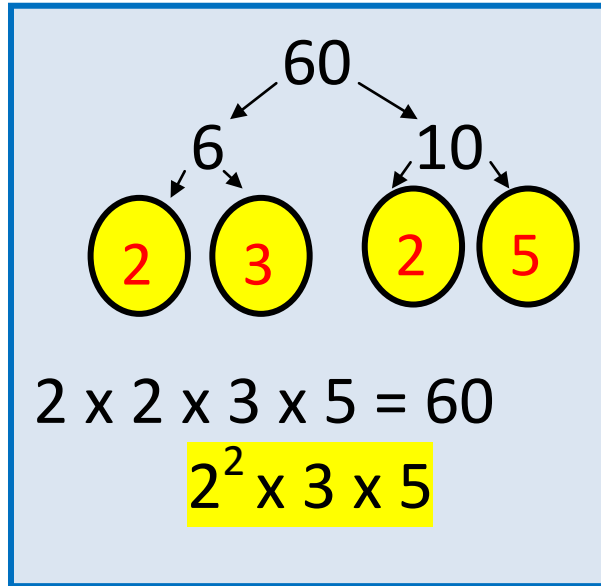
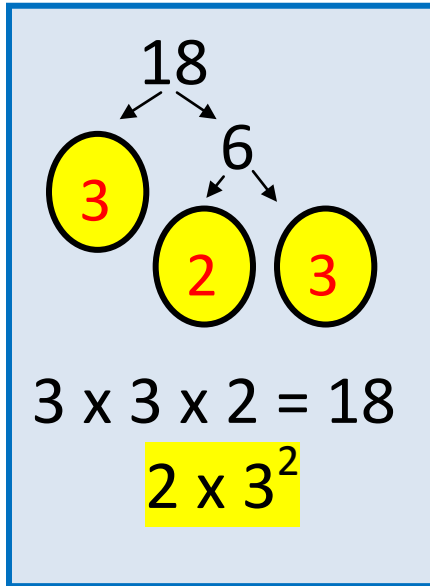
A COMPOSITE number is a whole number greater than 1 that has factors other than 1 and itself.

Ex. 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, ...

Factor Trees

Example 1

Example 2



Keys for using a **Factor Tree**:

- Break down numbers using 2 factors
- Circle **ALL** prime numbers
- Place answer in *exponent form*, if necessary

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