

Definitions:

Factor – _____.

Prime Number – _____.

Composite Number – _____.

Finding Factors:

Look for _____ of the number 20.

- First, start with _____ : $1 \cdot 20$
- Next, try the _____ : $2 \cdot 10$
- 3 is next, but it does not go in to 20, so skip it
- Move on to 4: $4 \cdot 5$
- Now try 5: $5 \cdot 4$
- Once a number _____, you found all of the factors and are done.

Find all of the factors for the number 24:

Prime and Composite numbers:

Remember, a prime number is _____.

A composite number is a _____.

Also, the only even prime number is the _____.

- 51 - This is a composite number because it can be divided by 3
- 53 - This is a prime number because it can only be divided by 1 and 53

Remember to use the _____ to help determine if a number is prime or composite.

Tell me if each number is prime or composite

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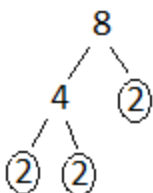
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Prime Factorization: Write the number as a _____
(List out all of the prime factors)

Ex: Find the prime factorization for the number 8.

- To solve for this, we have to make a _____, listing the factors under the number until we are just left with the prime numbers.



The prime factorization of 8 would be $2 \cdot 2 \cdot 2$ or 2^3