Day 1_.notebook March 14, 2016

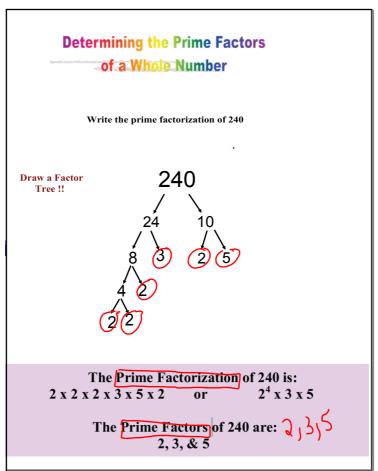


Prime Numbers

A <u>Prime Number</u> can be divided evenly **only** by 1 & itself. And it must be a whole number greater than 1.

The first few prime numbers are 2, 3, 5, 7, 11, 13, 17 etc.....

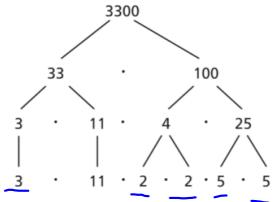
Oct 2-2:30 PM



Oct 2-2:37 PM

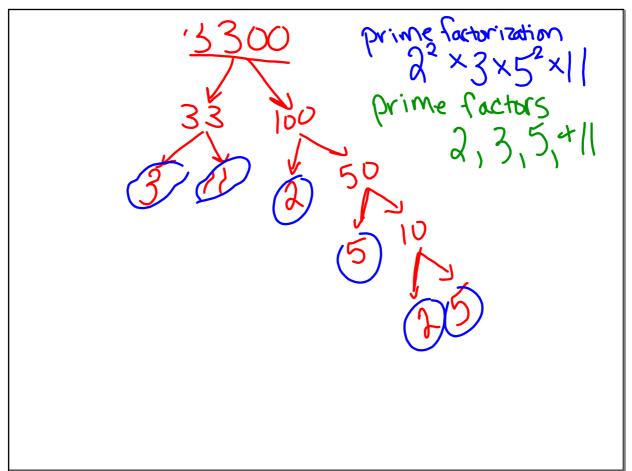
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Write the prime factorization of 3300 and the factors

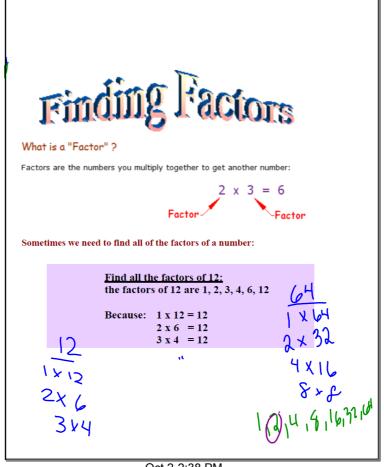


The prime factors of 3300 are 2, 3, 5, and 11. The prime factorization of 3300 is: $2 \cdot 2 \cdot 3 \cdot 5 \cdot 5 \cdot 11$, or $2^2 \cdot 3 \cdot 5^2 \cdot 11$

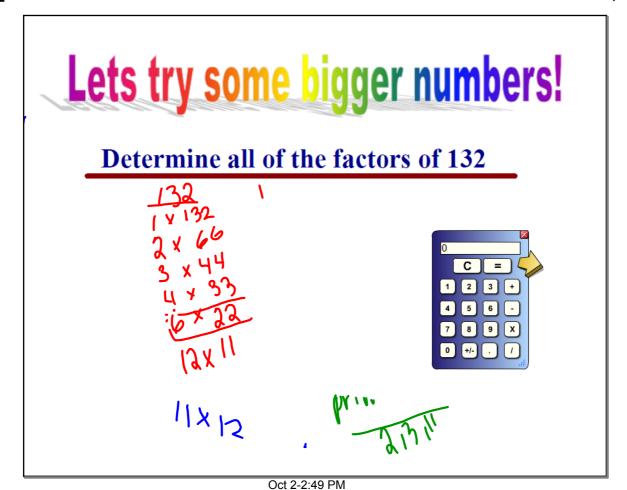
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1CF → Greatest Common Factor

Lets try some bigger numbers!

Determine all of the factors of 132

132
$$\div$$
 1 = 132
132 \div 2 = 66
132 \div 3 = 44
132 \div 4 = 33
132 \div 6 = 22
132 \div 11 = 12

The Factors of 132 are: 1, 2, 3, 4, 6, 11, 12, 22, 33, 44, 66, 132

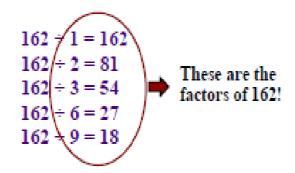
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Lets try some bigger numbers!

Determine all of the factors of 162

Lets try some bigger numbers!

Determine all of the factors of 162



The Factors of 162 are: 1, 2, 3, 6, 9, 18, 27, 54, 81, 162

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Common Factoring





for the Greatest Common Factor

Find the GCF of 36 and 54.

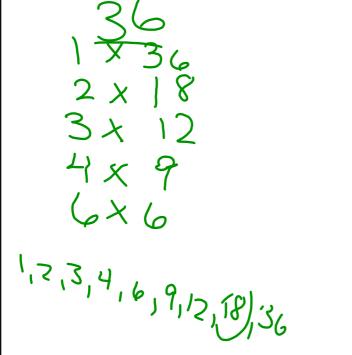
The factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, and 36.

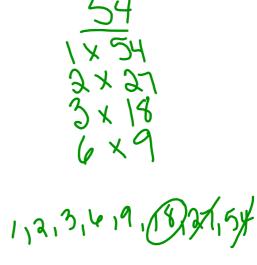
The factors of 54 are 1, 2, 3, 6, 9, 18, 27, and 54.

The common factors of 36 and 54 are 1, 2, 3, 6, 9, 18

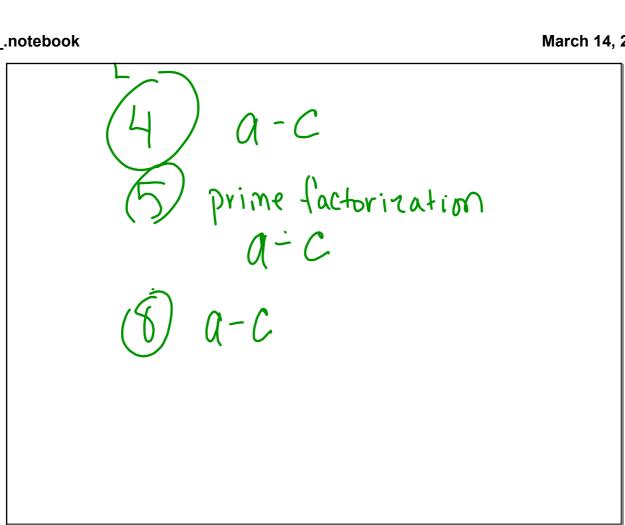
Although the numbers in bold are all common factors of both 36 and 54, **18** is the greatest common factor.

Feb 7 - 1:16 PM





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Mar 14-10:29 AM