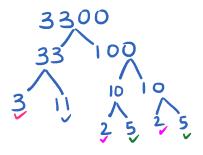
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2.1 Factors and Multiples of Whole Numbers

A prime number is	s a number that is only divisible	by <u>One</u> and <u>i</u>	tself.							
Example:	2, 3, 5, 7, 11, 13	5,17	•							
A factor is any number that will $divides$ evenly into it.										
Example:	8 8=1x8 8=2×4	Factors	0+ 0							
The prime factoriz	ation of a number is that numb	per written as a <u>pro</u>	<u>oduct</u> of its prime							
numbers.		Cmi								

Example 1: Write the prime factorization of 3,300.

Factor Tree

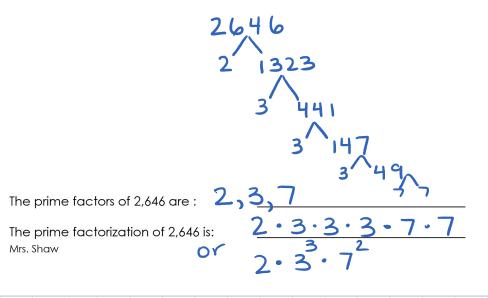


2,3,5,

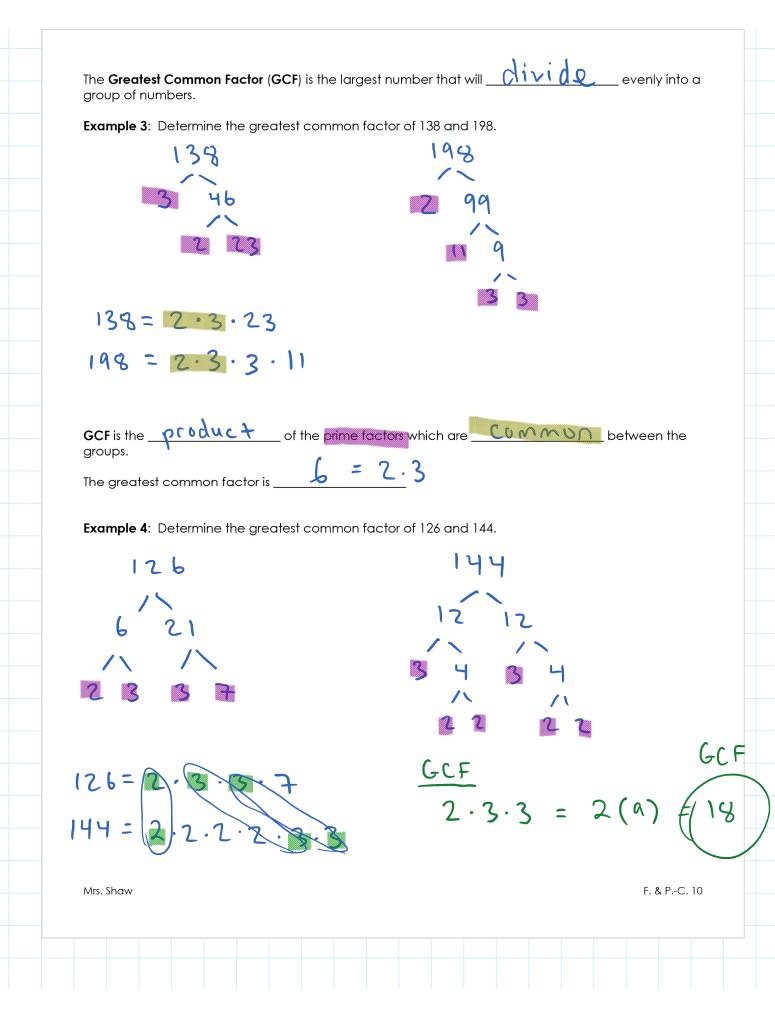
The prime factors of 3,300 are :

The prime factorization of 3,300 is:

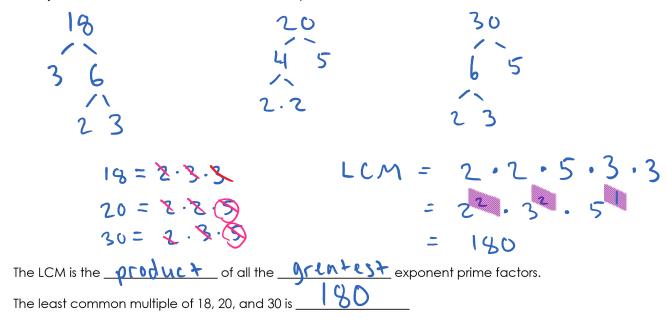
 $\frac{2 \cdot 2 \cdot 3 \cdot 5 \cdot 5 \cdot 1}{\text{or } 2^2 \cdot 3 \cdot 5^2 \cdot 1}$ Example 2: Write the prime factorization of 2,646.



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The Least Common Multiple (LCM) is the smallest number that a group of numbers will <u>divide</u> into.



Example 5: Determine the least common multiple of 18, 20, and 30.

Practice: p. 140 #3ae, 4acf, 5b, 6ae, 8ab, 9a, 10ab, 11ab, 15ae

Mrs. Shaw

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