

## DEFINITIONS:

<u>Prime Numbers</u>: can be divided evenly only by 1, or itself.

*Examples:* 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

<u>Composite Numbers</u>: can be divided evenly by numbers other than 1 and itself.

## <u>Examples:</u>

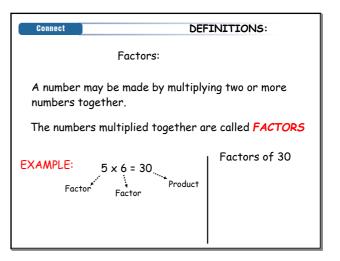
Connect

4,6,8,10,12,14,15,16,18,20,21,22,24,25,26,27,28,30,32,33 ,34,35,36,38,39,40,42,44,45,46,48,49

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Practice			YOU TRY!	
	Determine if the following numbers are prime or composite.			
23	45	57	81	
			l	



Practice	YOU TRY!		
List all the facto	List all the factors of the following numbers.		
20			
32	68		
	Ι		

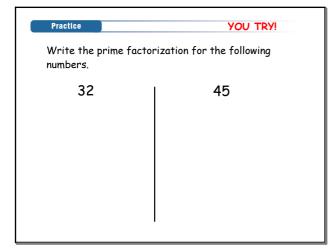
Connect	DEFINITIONS		
Prime Factors			
When a factor of a number has exactly two divisors, 1 and itself, the factor is a <b>PRIME FACTOR</b> .			
<u>Example:</u>			
Factors of 12	Prime Factors of 12		
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Practice	YOU TRY!		
	List all the factors of the following number, then list the prime factors of the same number.		
Factors of 18	Prime factors of 18		

Connect	DEFINITIONS:			
	Prime Factorization			
The <u>prime factorization</u> of a natural number is the number written as a product of its prime factors				
<u>Example:</u>	Factor tree of 24			



Practice	EXAMPLE 1:	
Determining the Prime Factors of a Whole Number		
<u>Method 1: Factor Tree</u>		
/rite the prime factorization	on of 3300	

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Practice EXAMPLE 1: Determining the Prime Factors of a Whole Number

<u>Method 2: Use repeated division by prime factors</u> Write the prime factorization of 3300

Practice	YOU TRY!		
W	Write the prime factorization 123		
Method 1	Method 2		

Practice	YOU TRY!
Write	e the prime factorization 2646
Method 1	Method 2

Practice		HOMEWORK!
	Textbook Questions:	
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	Advance Class:	
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