

Welcome! Please get your ISN and have a seat!!

*Please complete the warm up in your  
Google classroom!*



Aug 10-8:14 AM

WWK pg 7

Natural numbers: set of counting #'s starting with 1  
 $N; \{1, 2, 3, 4, \dots\}$

Divisible: when dividing 2 #'s & the remainder is zero, then the 2 #'s are divisible by each other

Divisor: The # dividing by  
 $\frac{24}{12} \leftarrow \text{divisor}$

$24/12$  (12 divides 24 b/c the remainder is  $\emptyset$ )

Divides: The # dividing into or separating  
 $\frac{24}{12} \leftarrow \text{divides}$

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# TOC 12 Prime & Composite Numbers Notes



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## Google Classroom

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<p>-A whole # that divides a whole # without a remainder -One of the 2 whole #s that multiply together to form a product</p>	<p>24 1x24 3x8 4x6 So factors are... 1,2,3,4,6,8,12,24</p>	<p>First 5 multiples of 24 are: 24, 48, 72, 96, 120 2x12, 3x8, 4x6, 5x24, 6x4</p>	<p>-A # that is the product of 2 factors (it's your 'Skip counting')</p>
<p>-A prime # has only 2 factors. (one &amp; itself) ↑ = [x] prime 2 factors</p>	<p>3, 5, 19, 17, 23, 13</p>	<p>15, 35, 14, 27, 4, 9, 21</p>	<p>-A composite # has 3 or more factors. 8 = 1x8 8 = 2x4 (all even #'s are composite b/c 2 is a factor of all, but 2 is a prime)</p>

\* PRIME FACTORIZATION\*  
(Factor Tree)

100  
2 50  
2 25  
5 5

$2 \times 2 \times 5 \times 5 = 100$   
 $2^2 \times 5^2 = 100$

This is how you write your prime factorization

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Pg 13 Prime and Composite Numbers

Example 1 What are the factors of .....

a) 18  
1x18  
2x9  
3x6  
1,2,3,6,9,18

b) 27  
1x27  
3x9  
1,3,9,27

c) 10  
1x10  
2x5  
1,2,5,10

Example 2 Tell whether the number is prime or composite.

a) 11 prime    b) 49 Composite    c) 93 composite    d) 29 prime

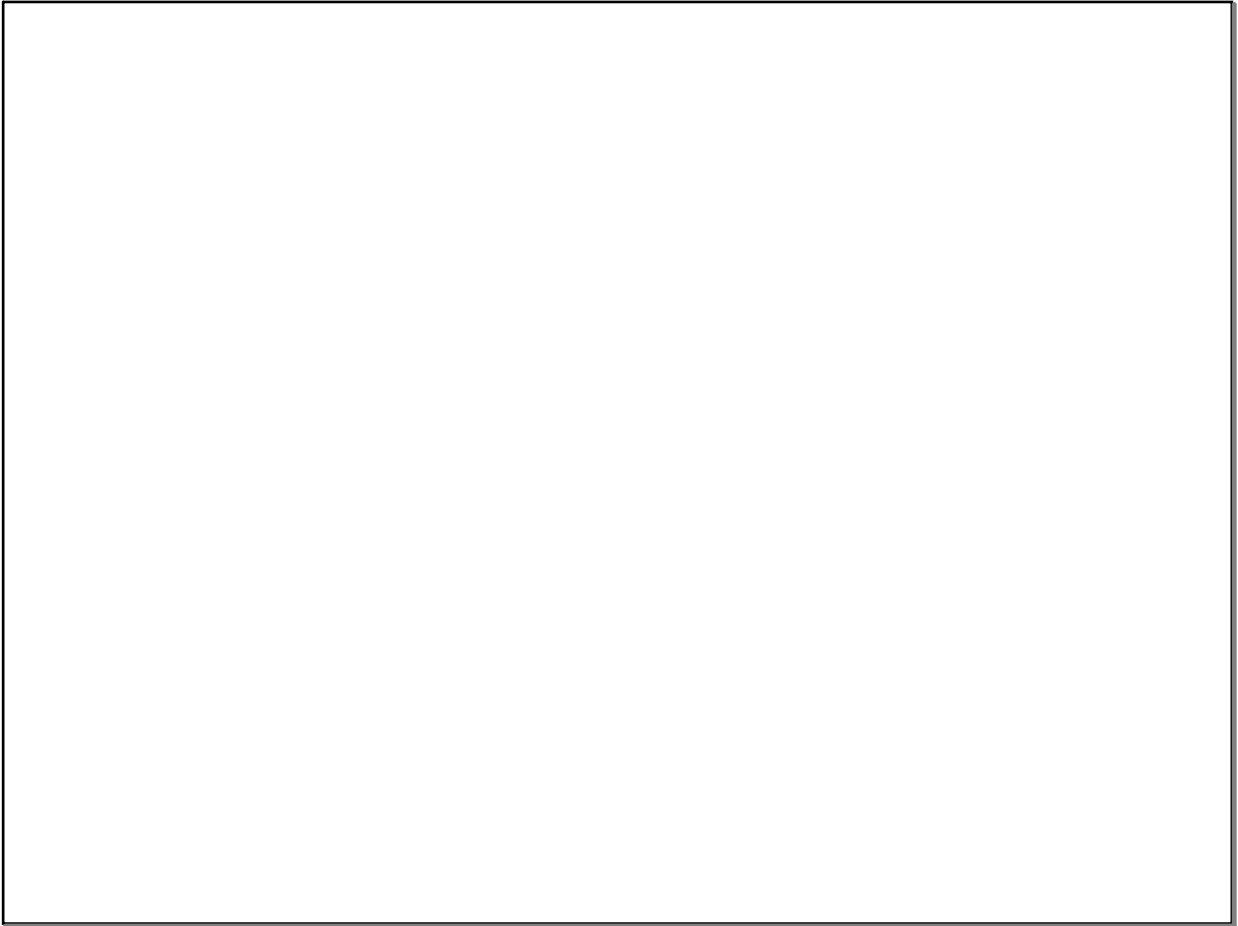
Example 3 What is the prime factorization of the following...

a) 24  
2x12  
2x6  
2x3  
2x2x2x3  
or  
 $2^3 \times 3$

b) 45  
5x9  
3x3  
3x3x5  
or  
 $3^2 \times 5$

c) 88  
2x44  
2x22  
2x11  
 $2^3 \times 11$

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