

## Prime Factoring Worksheet

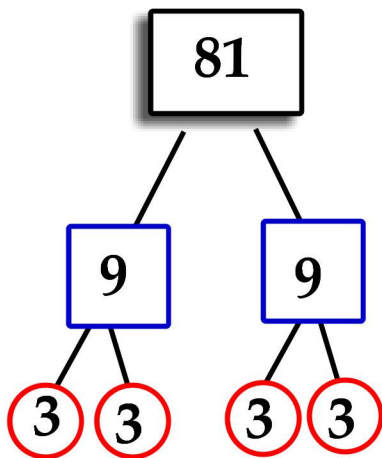
**Step 1** - Write your number in the small box.

**Step 2** - Factor the number using the colored triangles.

**Step 3** - Write your factorization in the box, then circle the prime numbers & put a box around the composite numbers.

**Step 4** - Write out your prime factorization answer.

### EXAMPLE



$$81 = 3 \times 3 \times 3 \times 3$$

**Step 1** - Write your number in the small box.

**Step 2** - Factor the number using the colored triangles.

**Step 3** - Write your factorization in the box, then circle the prime numbers & put a box around the composite numbers.

**Step 4** - Write out your prime factorization answer.

**Step 5 - GCF** - Find the Greatest Common Factor between the two numbers in each box. Write the GCF in the box.

GCF

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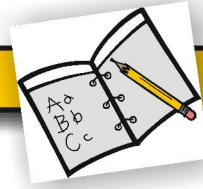
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GCF

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## Prime Numbers & Factoring Copywork



**A Prime Number is a number whose only factors are 1 and itself.**

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**The Prime Numbers are: 2 3 5 7 11 13 17 19 23 29 31 37 41  
43 47 53 59 61 67 71 73 79 83 89 97**


**A Composite Number is any whole number with more than 2 factors.**

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**The Greatest Common Factor between two numbers is the largest factor that they have in common. GCF = Greatest Common Factor**

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Notebooking Page

<b>Term</b>	<b>Definition</b>	<b>Example</b>
<b>Factor</b>		
<b>Product</b>		
<b>Prime Factorization</b>		
<b>Prime Numbers</b>		
<b>Composite Numbers</b>		
<b>Greatest Common Factor</b>		

Memory Work Cards

## Prime Number

A Prime Number is a number whose only factors are 1 and itself.

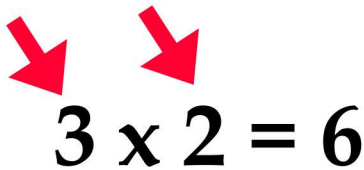
2 3 5 7 11 13 17 19 23 29  
31 37 41 43 47 53 59 61 67  
71 73 79 83 89 97

## Composite Number

A Composite Number is any whole number with more than 2 factors.

*all numbers that are not prime numbers*

## Factor


$$3 \times 2 = 6$$



Product

Factors are numbers you can multiply together to get another number

The answer you get when two or more numbers are multiplied together

## **Prime Factorization**

Process of finding  
which numbers  
multiply together to  
make the original  
number

## **GCF Greatest Common Factor**

The largest factor  
that 2 numbers have  
in common.