Your Name

Mrs. Theo

Greatest Common Factor

31212021

**Notes** 

Factor

integer humbers or variables that make up a term by pairing up with another factor using multiplication, thus each are smaller

There are factors that lead up to and create civil wars.

Multiple

more of a term, multiply the term by numbers, thus each are bigger

There have been multiple civil wars throughout the world.

Prime Number A whole number, greater than 1, whose only factors are 1 and itself

start at 2

Composite Number

A whole number, greater than 1, that has more than two

factors ex. 90

ex. 90: 1,2,3,5,6,9,10,15,18,30,45,90

no more flunters interven for factors

A whole number expressed as a product of prime factors

Prime Factorization

5 173 ex. 175: 1,5,7, 25,35,175 25 35 35 175 Rime Factorization: 52.7

ex. 144

5.35=175 25.7=175

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Monomial/

Term

Degree of a term

Factoring a Monomial the product of rationals and variables possibly with exponents (no addition or subtraction)

ex. 32x<sup>2</sup>

the sum of the term's variable exponents

ex.  $32x^2$ Degree is 2

ex.  $49a^{3}b^{2}$ Add 3+2=5Degare is 5

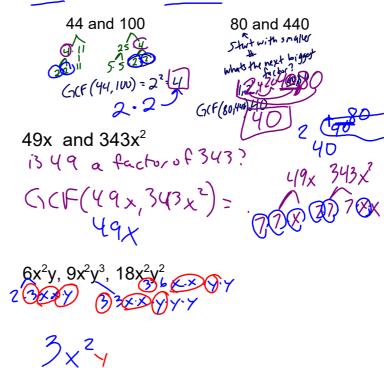
The product of the prime numbers and expanded form of the variables

ex. 32x<sup>2</sup>

ex.  $49a^3b^2$ 

Finding the GCF of a set of Monomials

Finding the GCF of the integer coefficients term and the highest power of each variable that all the monomials share



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Determine what the GCF of each pair is.

1. 27,32

2. -64 and -80

- 3. 4a<sup>7</sup>b, 28ab
- 4. 96y, 12x, 8y

5. 12x<sup>2</sup>, 32x<sup>2</sup>yz, 18xy<sup>2</sup>

6. 18a<sup>4</sup>b<sup>2</sup>, 36a<sup>3</sup>b

## Determine what the GCF of each pair is.

