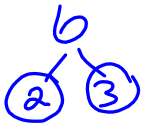
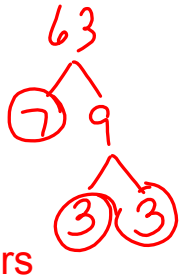
Do Now

Factor each number

1) $6 = 2 \cdot 3$



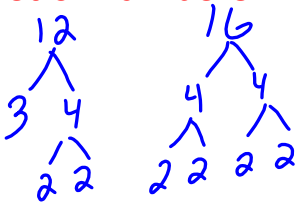
2) $63 = 3^2 \cdot 7$ or $3 \cdot 3 \cdot 7$



Find the GCF of each set of numbers

3) 12 & 16

GCF = 4



4) 6, 8, 12

GCF = 2

Apr 7-10:10 AM

Factors and Factoring

What is a Factor?

"Factors" are the terms we can **multiply together** to get another term

What is a GCF?

"Greatest Common Factors" are the **largest** terms that are factors of all other terms given

What is "Factoring"?

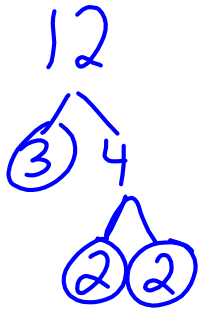
It means to write the given information as a product of two factors.

Jan 11-8:52 PM

Factoring a Monomial

- $12ab^2$

$2 \cdot 2 \cdot 3 \cdot a \cdot b \cdot b$



- $27x^2y^3$

$3 \cdot 3 \cdot 3 \cdot x \cdot x \cdot y \cdot y \cdot y$

Apr 7-10:10 AM

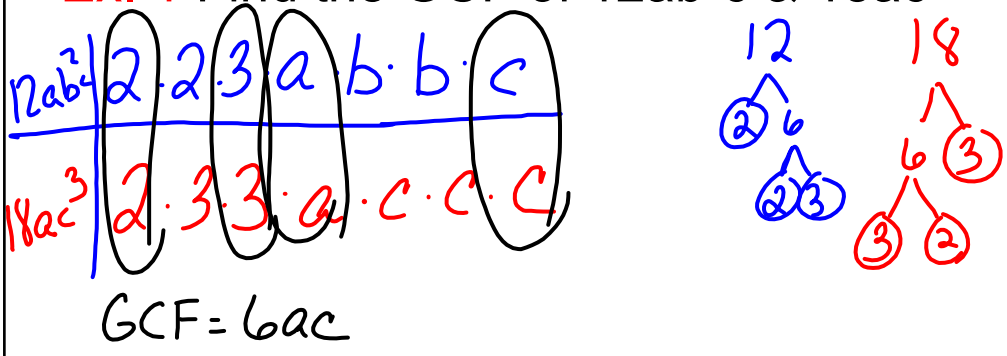
Finding the GCF of Monomials

- Factor Each Monomial
- Find the GCF of the Coefficients
- Find the variables they have in common

(Find the smallest exponent from each like variable)

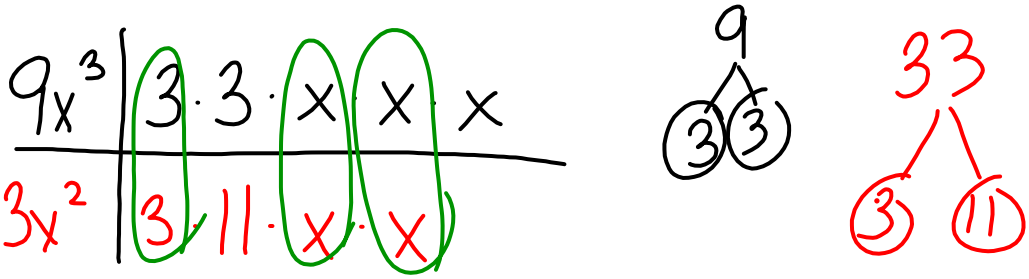
Apr 17-6:58 AM

Ex. 1 Find the GCF of $12ab^2c$ & $18ac^3$



GCF = 6ac

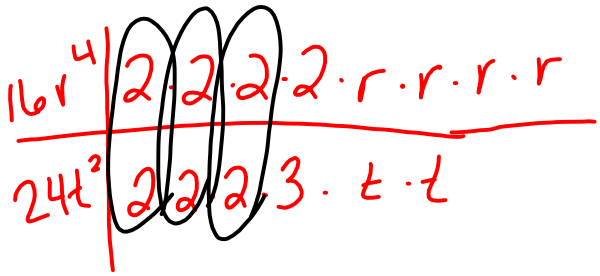
Ex. 2 Find the GCF of $9x^3$ & $33x^2$



GCF = $3x^2$

Apr 7-10:10 AM

Ex. 3 Find the GCF $16r^4$ & $24t^2$



GCF = 8

Ex. 4 Find the GCF 8rta, 6rtb, 10rtc

GCF = 2rt

Apr 7-10:10 AM