Name	
Date	Period

Greatest Common Factor

The GCF of two number is the greatest factor both numbers have in common

Factors of 12: Factors of 18:

What factors do 12 and 18 have in common?

6 is the GCF of 12 and 18.

Greatest Common Factor

The GCF of two number is the greatest factor both numbers have in common

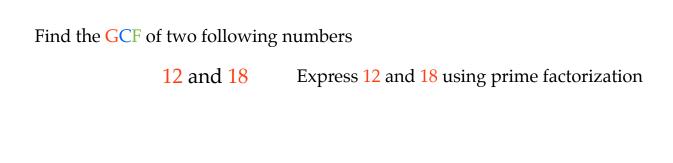
Factors of 15: Factors of 27:

1, 3, 5, 15 1, 3, 9, 27

What factors do 15 and 27 have in common?

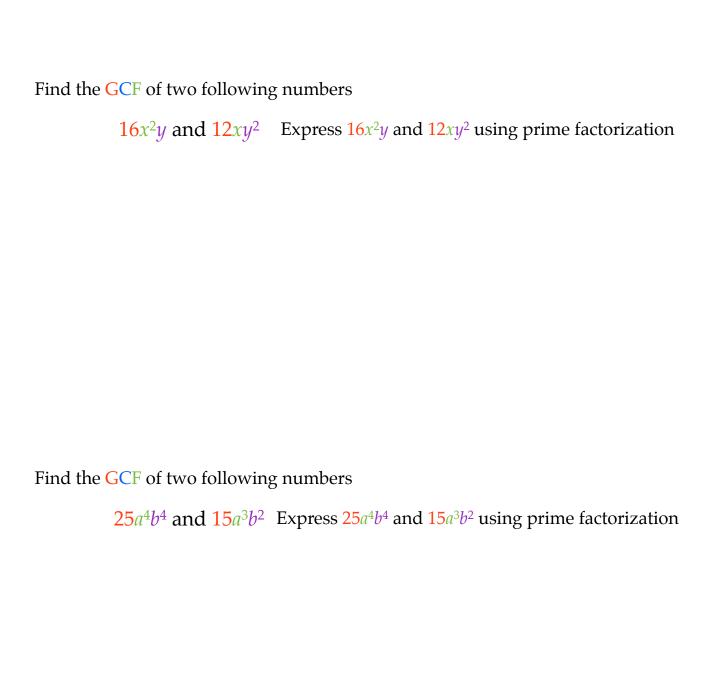
1, 3

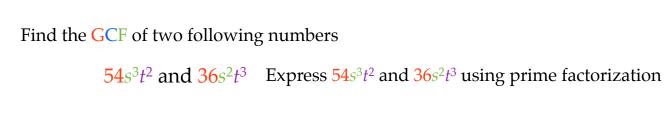
3 is the GCF of 15 and 27.



Find the GCF of two following numbers

 $32x^2$ and $36x^3$ Express $32x^2$ and $36x^3$ using prime factorization





Find the GCF of two following numbers

 $12a^2$, 15a and $9a^3$ Express $12a^2$, 15a and $9a^3$ using prime factorization

Find the GCF of two following numbers

 $20x^2y$, $24x^3y^2$ and $16xy^3$ Express $20s^2y$, $24x^3y^2$ and $16xy^3$ using prime factorization