

Factors

whole #'s that multiply together to give a larger #

Factors of . . .

6 : 1, 2, 3, 6

24 : 1, 2, 3, 4, 6, 8, 12, 24

Greatest Common Factor (GCF):

The biggest factor 2 #'s have in common

Find the GCF:

24 + 36 :

24 : 1, 2, 3, 4, 6, 8, 12, 24

36 : 1, 2, 3, 4, 6, 9, 12, 18, 36

GCF: 12

5 + 20 :

Multiples

The product of the # and another whole #. AKA "count-bys"

Multiples of

10 : 10, 20, 30, 40. . .

7 : 7, 14, 21, 28. . .

Least Common Multiple (LCM):

the smallest multiple 2 #'s have in common

Find the LCM:

5 & 8 :

5 : 5, 10, 15, 20, 25, 30, 35, 40

8 : 8, 16, 24, 32, 40

LCM: 40

12 & 10 :

Prime Factorization:

Writing a # as the product of primes
"factor tree"

Prime: only factors are 1 and itself
ex: 7, 11, 13, etc...

Composite: #'s w/ factors other than 1
and itself
ex: 12, 8, 49, 100 etc...

Write the prime factorization of
24, 50, + 81

