Factor numbers multiplied together to Obtain a given product
ex 3 and 5 are factors of 15 1 and 15 are factors of 15

Prime \# a whole \# greater than 1 with exactly 2 factors. 1 and itsey
ex $2,3,5,7,11,13,17,19$,
Composite \#. whole \# greater than 1 , that is not
prime
Ex \#1 Use a factor tree to find the prime numbers

prime
factonzation $7 \times 3 \times 3 \quad L$
$=63$
The Greatest Common factor (GCF)
$\rightarrow$ the largest factor that is the same in all given numbers

* the largest \# that can divide evenly into all
numbers

Ex.\#1 find the GCF of 18 and 24

$$
\begin{aligned}
& 181,18,2,9,3,6 \\
& \text { 24. } 1,24,4,(6), 2,12,3,8 \\
& G C F=6 \\
& \text { Ex\#2 } \\
& 10 \quad 1,10,2,5 \\
& 121,12,6,2,3,4, \\
& G C F=2 \\
& \text { Ex\#3 } \\
& 351,35,5,7 \\
& 421,42,6,7,2,21 \\
& G C F=7
\end{aligned}
$$

Least common Multiple (LCM)
$\rightarrow$ the smallest \# that is a multiple of each of the given numbers
Ex \# LCM of 4 and 10

$$
\begin{array}{lll}
4 & 4,8,12,16,20,24 \\
10 & 10,20,30,40
\end{array} \quad L C M=20
$$

Ex \#2

$$
\begin{aligned}
& 3030,60,90,120,150,180,210 \\
& 4242,84,126,168,210 \\
& L C M=210
\end{aligned}
$$

.

