## Greatest Common (GCF)

Steps:

1. Factor each term down to prime $\{x: 1,2,3,5,7$, numbers $11,13,17 \ldots$
2. Find the Common factors
3. Pull $\qquad$ the common factors
4. Ask yourself "What's left ?"
5. Set up factors as GCF (what's left?)

- If the leading coefficient is negative you MUST pull out the negative with the GeV Watch out for the sign changes!



## EXAMPLE:

## DISTRIBUTE $8(\mathrm{x}+1)$

## GCF





## GCF

## WHAT IS THE BIGGEST THING THEY HAVE

IN COMMON
$\frac{2 x^{3}}{2 x^{2}}+\frac{6 x^{2}}{2 x^{2}}$


## GCF

## WHAT IS THE BIGGEST THING THEY HAVE IN COMMON <br> $$
\frac{24 x^{2}}{8}+\frac{32 x}{8}+\frac{16}{8}
$$ <br> 

## GROUPING \& CF

## WHAT IS THE BIGGEST THING THEY HAVE

IN COMMON
$\left.\left(\frac{2 x^{3}}{x^{2}}+\frac{3 x^{2}}{x^{2}}\right)+\frac{6 x}{3}+\frac{9}{3}\right)$
$\frac{x^{2}\left(2 x^{3}+3\right)+3(2 x+3)}{\left(\left(x^{2}+3\right)(2 x+3)\right.}$

