

9 - 5

**Factor Using Greatest
Common Factor (GCF)**

$$2(3x + 4)$$

$$6x + 8$$

$$2(3x + 4)$$



undoing this process is called
factoring

(GCF)

greatest common factor: largest

number and variable that fits
into both



Find the GCF of the following...



4x and 16xy

4x

Find the GCF of the following...



- $6a^2b'$ and $12ab'$

$6ab$

Factoring

*what isn't used is left behind
in parentheses*



Ex: Factor $3x + 6$

$$3(x + 2)$$

$$3x + 6$$

Ex: Factor $4x^2y - 18x$.



$$2x(2xy - 9)$$

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

Find the GCF of...



$8y$ and $4xy^2$

$4y$

Factor...

$5x^2 - 20$

$5(x^2 - 4)$

$7r^2s$ and $9rs$

rs

$2x^2 - 6x$

$2x(x - 3)$



Homework:

p.416 #1 - 8