# GCF1

Name: _____
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**Factoring**
GCF Method

| <u>Example:</u> | <u>Steps:</u> |
|---|---|
| $3x - 3y$<br>$3(x - y)$ | 1) Factor out GCF<br>    (both the 3x and 3y have 3 in common)<br>2) When factoring out a positive → signs remain<br>               the same<br>    (signs inside the parentheses)<br><br>3) When factoring out a negative → signs change<br><br>$\left( \begin{matrix} \text{positive} \rightarrow \text{negative} \\ \text{Negative} \rightarrow \text{positive} \end{matrix} \right)$ |
| 1) $xc - xd$ | 2) $3m - 6n$ |
| 3) $18c + 27d$ | 4) $7y - 7$ |
| 5) $y^2 - 3y$ | 6) $ax - 5ab$ |
| 7) $8a + a^2b^2$ | 8) $x^3y^2 + x^2y$ |