Factors are multiplied together to make products or multiples. For example, in

$$
2 \times 3=6
$$

2 and 3 are factors of 6 (as are 1 and 6 ) and 6 is a multiple of $2(2,4,6,8,10 \ldots)$ as well as a multiple of 3 ( $3,6,9,12 \ldots$ ).

Expressions can often be factored by performing the opposite of distribution. Begin by finding the Greatest Common Factor, and place it in front of the parentheses.

Ex. $14 x+35$ GCF of $14 x$ and 35 is 7

$$
7(2 x)+7(5) \rightarrow 7(2 x+5)
$$

Ex. $12 a^{2}+16 a=4 a(3 a+4)$
To check your answer, distribute!

