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## Factor Using the Distributive Property

If the terms in an expression share a common factor, you can "factor" that expression. That means you can rewrite it as a product. Let's try it with the expression $40+16$.

First, find the greatest common factor (GCF) of 40 and 16 . The GCF is 8 . Then, you can rewrite the expression as a product using the distributive property.

$$
\begin{aligned}
40+16 & =(8 \times 5)+(8 \times 2) \\
& =8(5+2)
\end{aligned}
$$

Let's try another example: $15+24$.
The GCF of 15 and 24 is 3 . Rewrite the expression using the distributive property.

Check your answer. Apply the distributive property to make sure you get the expression from before.

$$
15+24=3(5+8)
$$




Write the GCF. Then factor using the distributive property. Check your answer by applying the distributive property.


