Expanding Linear Expressions
Using the Distributive Property
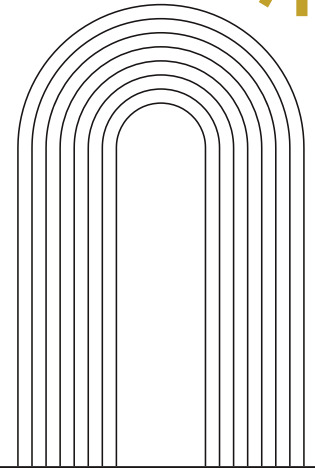
You can use the **distributive property** to expand expressions that are written as products.

Let's try it!

Expand $4(2x + y - 6)$.

$4(2x + y - 6) = 4(2x) + 4(y) + 4(-6)$ *Multiply each term inside the parentheses by 4.*

$= 8x + 4y - 24$ *Simplify.*

Expand each expression. Write the simplified expression on the blank.

$3(a + 7) =$ _____

$9(-4t + 3) =$ _____

$-5(2y - 5) =$ _____

$6(3b - 7) =$ _____

$-7(4q + 10r - 8) =$ _____

$4(-8f - 5g + 3) =$ _____

$6(x + 4 - 6y) =$ _____

$2(11b - 14c + 25) =$ _____

$3(1.2y + 0.8) =$ _____

$-0.9(9m - 0.5) =$ _____

$\frac{1}{3}(6g + 15) =$ _____

$\frac{3}{4}(-12r - 8) =$ _____

$-3(0.6t + 0.2u - 8) =$ _____

$\frac{2}{5}(a - 10b + 5) =$ _____

$-0.8(-0.6c + 1.2d + 4) =$ _____

$-\frac{2}{3}(6x - y + 12) =$ _____