

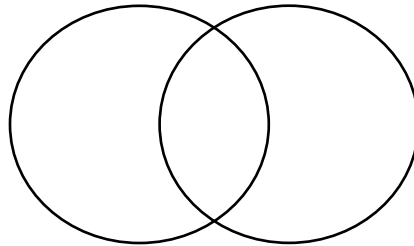
10C - Finding the Quotient 10D - Rewriting Polynomials

Objective: SWBAT rewrite the polynomial using the distributive property when finding the area of the rectangle and find the GCF when finding the quotient.

Bell Ringer : What are the similarities and differences of the two methods?

$5(x + 3)$ is the same as

$$\begin{array}{r} x + 3 \\ x + 3 \\ x + 3 \\ x + 3 \\ x + 3 \\ \hline 5x + 15 \end{array}$$



$(x + 3) \cdot \underline{\hspace{2cm}} = (12x + 36)$

Or

How many $(x + 3)$ does it take to get $(12x + 36)$?

Find the Area	Find the Quotient
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(x + 3)$ $A = L \times W$ 5 </div> <div style="text-align: center;"> <p>$5(x + 3)$ $5x + 15$</p> </div> </div> <p><i>5 is the GCF of the Area</i></p>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(x + 3)$ $A = (12x + 36)$? </div> <div style="text-align: center;"> $\frac{12x + 36}{x + 3}$ $\frac{12(x + 3)}{(x + 3)} = 12$ </div> </div> <p><i>12 is the GCF of the Area</i></p>
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(3z + 17)$ 12 </div> </div>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(3z + 17)$ $A = (9z + 51)$? </div> </div>
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(16b - 2)$ 11 </div> </div>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(16b - 2)$ $A = (80b - 10)$? </div> </div>
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(2y + 5)$ 6 </div> </div>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> $(2y + 5)$ $A = (6y + 15)$? </div> </div>

<p><u>Simplify the expression</u></p> $-2(x - 3)$	<p><u>Simplify the expression</u></p> $-4(7 + 5x)$	$(3a - 1)$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $A = (18a - 6)$ </div> ?
<p><u>Simplify the expression</u></p> $-6(x + 5)$	<p><u>Simplify the expression</u></p> $4(1 - x)$	$(30c - 13)$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $A = (270c - 117)$ </div> ?
<p><u>Simplify the expression</u></p> $6 - (x + 2)$		<p><u>Simplify the expression</u></p> $9 - 2(2 + 3x)$
<p><u>Simplify the expression</u></p> $4x - 2(5x - 3)$		<p><u>Simplify the expression</u></p> $8x - (1 - 5x)$
<p>Reflection: What have you learned?</p>		