

Name: \_\_\_\_\_  
 Class/Block: \_\_\_\_\_ Date: \_\_\_\_\_



## Equivalent Expressions – Distributive Property

For each row, decide whether the pair of expressions is equal or not equal, and explain your reasoning. Within a row, variables in both expressions have the same value.

<b>1.</b>	<b><math>3(2 + 5)</math></b>	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	<b><math>3(2) + 5</math></b>
	Explain your reasoning:		
<b>2.</b>	<b><math>5(a + 4)</math></b>	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	<b><math>5a + 20</math></b>
	Explain your reasoning:		
<b>3.</b>	<b><math>4l + w</math></b>	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	<b><math>4(l + w)</math></b>
	Explain your reasoning:		
<b>4.</b>	<b><math>b \cdot c \cdot a</math></b>	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	<b><math>a \cdot b \cdot c</math></b>
	Explain your reasoning:		



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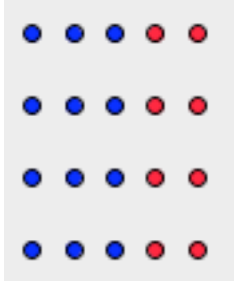
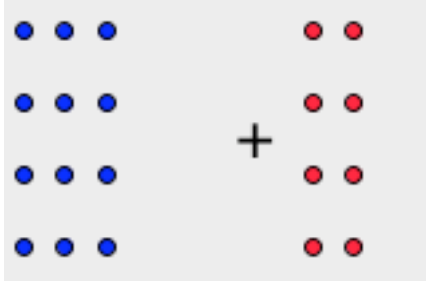
5.	$(x - 3)4$	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	$x - 12$
	Explain your reasoning.		
6.	$21r - 35$	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	$7(3r - 5)$
	Explain your reasoning.		
7.	$ab - af$	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	$a(b - f)$
	Explain your reasoning.		
8.	$6(2 + x)$	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	$6(2x)$
	Explain your reasoning.		



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9. Sam and Julie drew pictures to represent the expression they were given. Decide which student's drawing best represents the expression they were given.

The students drew a representation for the expression: $4(3 + 2)$	
<b>Sam's drawing</b> 	<b>Julie's drawing</b> 
Explain your thinking about which student's picture best represents the expression and why you think so.	

10. The students were given 2 expressions and asked if they were equal.

What do you think?

$3(8)$	<input type="checkbox"/> equal (=) <input type="checkbox"/> not equal ( $\neq$ )	$3(3) + 3(5)$
Draw a picture to show your thinking:		