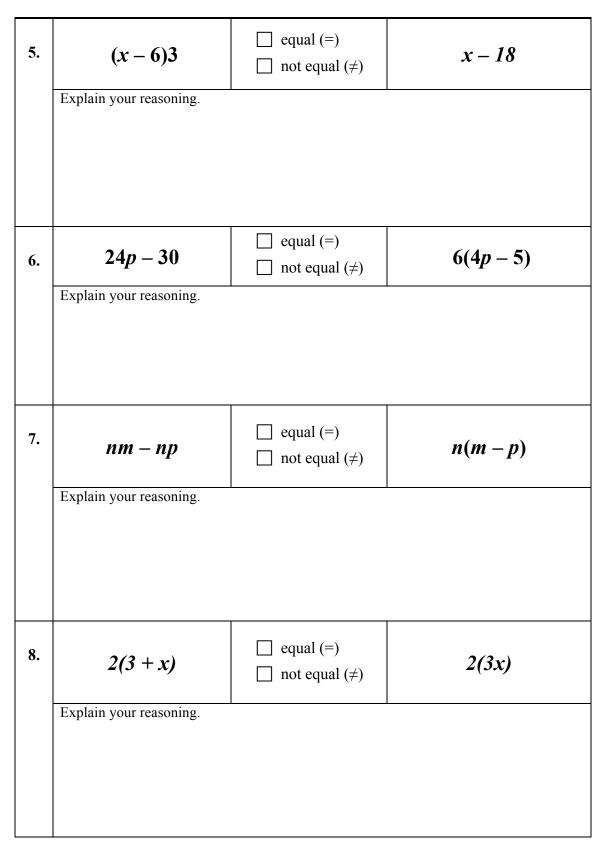Name: _____

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.

1.	$2(3 + 4)$	☐ equal (=) ☐ not equal (≠)	$2(3) + 4$
	Explain your reasoning:		

2.	$2(a + 5)$	☐ equal (=) ☐ not equal (≠)	$2a + 10$
	Explain your reasoning:		

3.	$2l + w$	☐ equal (=) ☐ not equal (≠)	$2(l + w)$
	Explain your reasoning:		

4.	$a \cdot b \cdot c$	☐ equal (=) ☐ not equal (≠)	$c \cdot b \cdot a$
	Explain your reasoning.		

5.	$(x - 6)3$	☐ equal (=) ☐ not equal (≠)	$x - 18$
	Explain your reasoning.		

6.	$24p - 30$	☐ equal (=) ☐ not equal (≠)	$6(4p - 5)$
	Explain your reasoning.		

7.	$nm - np$	☐ equal (=) ☐ not equal (≠)	$n(m - p)$
	Explain your reasoning.		

8.	$2(3 + x)$	☐ equal (=) ☐ not equal (≠)	$2(3x)$
	Explain your reasoning.		

Name: _____

Class/Block: _____ Date: _____

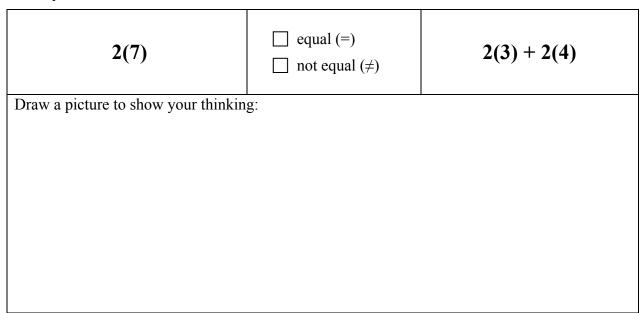**9.** **Jamie and Sue drew pictures to represent the expression they were given. Decide which student's drawing best represents the expression they were given.**

The students drew a representation for the expression:	$5 (2 + 3)$

Jamie's drawing	Sue's drawing

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?**

2(7)	☐ equal (=) ☐ not equal (≠)	2(3) + 2(4)

Draw a picture to show your thinking: