NAME _____

Lesson 2.1 Multiplying and the Distributive Property

The **distributive property** combines multiplication with addition or subtraction. The property states:

$a \times (b + c) = (a \times b) + (a \times c)$

$a \times (b - c) = (a \times b) - (a \times c)$

$3 \times (6 + 4) = (3 \times 6) + (3 \times 4)$

$3 \times (10) = (18) + (12)$

$30 = 30$

Rewrite each expression using the distributive property.

	a	b
1.	$(a \times 4) + (a \times 3) =$	$b \times (6 + 12) =$
2.	$4 \times (a + b) =$	$(3 \times a) + (3 \times b) =$
3.	$(d \times 5) - (d \times 2) =$	$5 \times (8 + p) =$
4.	$d \times (8 - h) =$	$12 \times (s - 10) =$
5.	$r \times (16 + s) =$	$(35 \times t) + (35 \times y) =$
6.	$(8 \times a) + (b \times 8) =$	$r \times (q - s) =$
7.	$(6 \times 12) - (w \times 6) =$	$p \times (15 + z) =$
8.	$15 \times (y + 0) =$	$(d \times d) + (d \times b) =$
9.	$(a \times 2) + (a \times 3) + (a \times 4) =$	$p \times (a + b + 4) =$
10.	$(a \times b) + (a \times c) - (a \times d) =$	$8 \times (a + b + c) =$