

Name: _____

Period: _____ Date: _____

Learning to Distribute Multiplication Answers

Section I. Use the traditional PEMDAS way to solve in the *a* column to confirm you are distributing correctly in the *b* and *c* columns. (hint - answers for *a* & *b* should be equal)

a problems - use pemdas

b problems - distribute

c problems - distribute

1a. $3(9 - 7)$
 $3(2)$
 6

1b. $3(9 - 7)$
 $27 - 21$
 6

1c. $3(x - 7)$
 $3x - 21$

2a. $5(4 - 8)$
 $5(-4)$
 -20

2b. $5(4 - 8)$
 $20 - 40$
 -20

2c. $5(x - 8)$
 $5x - 40$

3a. $-2(12 - 4)$
 $-2(8)$
 -16

3b. $-2(12 - 4)$
 $-24 + 8$
 -16

3c. $-2(x - 4)$
 $-2x + 8$

4a. $-6(10 - 1)$
 $-6(9)$
 -54

4b. $-6(10 - 1)$
 $-60 + 6$
 -54

4c. $-6(x - 1)$
 $-6x + 6$

5a. $7(11 - 5)$
 $7(6)$
 42

5b. $7(11 - 5)$
 $77 - 35$
 42

5c. $7(11 - x)$
 $77 - 7x$

6a. $-9(3 - 8)$
 $-9(-5)$
 45

6b. $-9(3 - 8)$
 $-27 + 72$
 45

6c. $-9(3 - x)$
 $-27 + 9x$

7a. $12(1 - 5)$
 $12(-4)$
 -48

7b. $12(1 - 5)$
 $12 - 60$
 -48

7c. $12(1 - x)$
 $12 - 12x$

8a. $4(-3 - 6)$
 $4(-9)$
 -36

8b. $4(-3 - 6)$
 $-12 - 24$
 -36

8c. $4(-x - 6)$
 $-4x - 24$

9a. $-11(-2 - 5)$
 $-11(-7)$
 77

9b. $-11(-2 - 5)$
 $22 + 55$
 77

9c. $-11(-2 - x)$
 $22 + 11x$

10a. $-3(-4 - 7)$
 $-3(-11)$
 33

10b. $-3(-4 - 7)$
 $12 + 21$
 33

10c. $-3(-4 - x)$
 $12 + 3x$

11a. $5(-6 - 2)$
 $5(-8)$
 33

11b. $5(-6 - 2)$
 $12 + 21$
 33

11c. $5(-6 - x)$
 $12 + 3x$

12a. $-8(9 - 4)$
 $-3(-11)$
 33

12b. $-8(9 - 4)$
 $12 + 21$
 33

12c. $-8(9 - x)$
 $12 + 3x$