Name:	
Date:	Period:

Directions:

- 1) Represent each of the following situations using Starburst's.
- 2) Draw a diagram inside the box for each column.
- 3) Then write as an algebraic expression.
- 4) Write out the repeated addition.
- 5) Add the expressions.

1) three groups of 2 red and 1 yellow	2) two groups of 1 orange and 5 pink
Algebraic Expression:	Algebraic Expression:
Repeated Addition:	Repeated Addition:
*	*
Total:	Total:

3) three groups of 2 orange and 3 yellow	4) two groups of 5 orange and 3 red
Algebraic Expression:	Algebraic Expression:
Repeated Addition:	Repeated Addition:
+ Total:	+ Total:
5) twelve groups of 6 pink and 8 yellow	Algebraic Expression: Repeated Addition:
	+ Total:

Starburst Distributing: Distributive Property Practice

Name:_____ Date:_____ Period:_____

	The Distributive Property Let <i>a, b, c</i> be real numbers.	
Words	Algebra	Examples
The product of a and (b + c)	a(b + c) = ab + ac $(b + c)a = ba + ca$	3(4+2) = 3(4) + 3(2) (3+5)2 = 3(2) + 5(2)
The product of a and (b – c)	a(b - c) = ab - ac $(b - c)a = ba - ca$	5(6-4) = 5(6) - 5(4) (8-6)(4) = 8(4) - 6(4)

Directions: Please simplify the following expressions by using the distributive property.

1) 3(2y - 5) 2) 2(8 + h) 3) (3 + 3x)(5)

4) $7(5x + 10)$	5) $2(y - x)$	6) (5 – 6x)(2)
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|--|

10) 5(c + 3a + 5t) + 8(c + 2a + 3t)	11) A square has sides of length 3x – 10.
	What is the perimeter of the square?

3x - 10

12) Find the area of the rectangle.

7x - 4



Name:	
Date:	Period:

LT #7: I can apply the properties of operations to generate equivalent expressions. LT #8: I can identify when two expressions are equivalent.

Directions: Apply the distributive property to simplify the following expressions. Find the product of each of the following **using the distributive property**:

 1) 14 x 35
 2) 7(70 + 8)
 3) 8(352)

Directions: Apply the distributive property to simplify the following expressions.

7) $3(2x + 4 + 5y) + 10$	8) 7(4p + 6r – b) + 4r + 12p

Directions: Combine like terms to simplify.

11) 12 + 3h - 4 + 16y - 2y + 4h

12) Find the **perimeter** of the square pictured below *using the distributive property.*



13) Find the area and the perimeter of the rectangle pictured below using the distributive property. Don't forget to write the formulas first.



Perimeter = _____

Bonus:

1) Find the **area and perimeter** of the rectangle pictured below **using the distributive property**.

