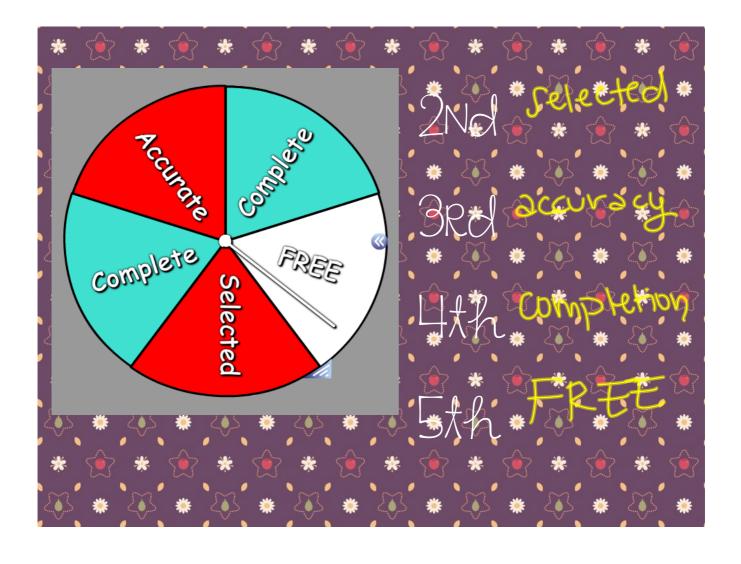
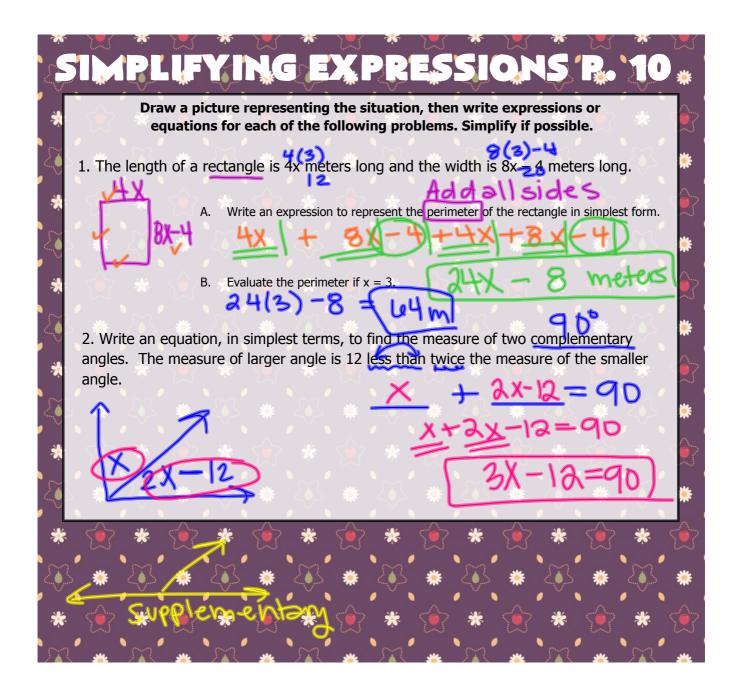
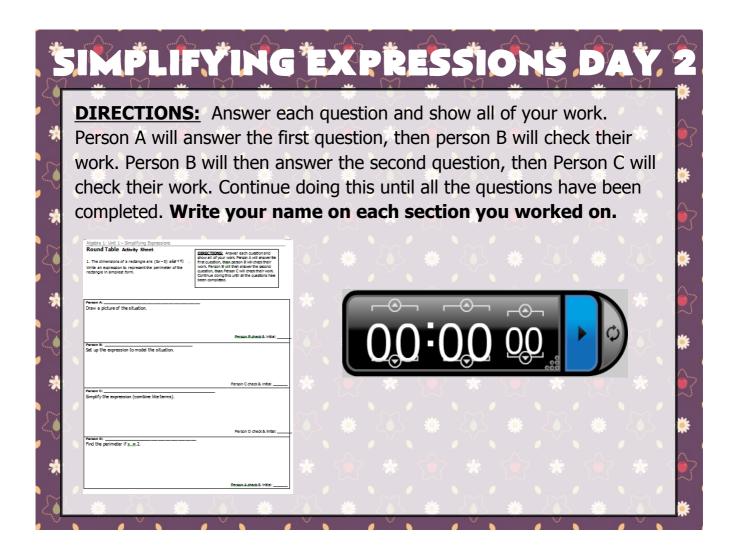
# SIMPLIFYING EXPRESSIONS DAY, 2 AGENDA WARM=UP Warm-Up Turn in Mathbook or Calculator Agreements!!! Round Robin On a notecard, write your name and the following. Quiz I. How has your first week of school gone? REMINDERS Calculator & 2. What is your biggest fear about Algebra class? Mathbook form due TODAY 3. Write one school-related goal you have for this year **OBJECTIVE** 4. Write one non-school related goal you have for this We will solve word problems involving year. simplifying expressions.

Pract Name <sub>-</sub>		ressions and Equations  Date		Period	рр 46-51 —
Simpli	ify each expression. If it	cannot be simplified, write	simplified".		
1.	4ab+ab	2.	$-3h^2 - 2h^2$		
3.	a2 + b2 Simplifie	<b>d</b>	∂b⊕c 20	+6+0	
5.	6(x+y) 6X+loy	6.	16 <i>m</i> <sup>3</sup> –10 <i>m</i> <sup>2</sup>	sli Red	
7.	-5(2d-8) -10d +41	8.	1 1 1		
9.	5(r+2)+7r	10	5(c+4)+3(c 5c+20		<u> </u>
Simpli 11.	ify first, then evaluate if  8w-4(w-6)  W-4W+24  (4W + 24)  4(3)+24	$w = 3$ , $v = -2$ and $b = 5$ . Expression $\frac{12}{-3}(b + \frac{1}{2})$	12 + 6b	36	- 3 - 12
13.	The dimensions of a rectar rectangle in simplest form.  Now, find the Perimeter if	<u> </u>	ite an expression to	o represent the period $\frac{1}{2}$	<u>-x</u> ++4
14.	Find the perimeter, in simp	olest form, of the rectangle in ter	ms of r. o	The av	







## Algebra 1: Unit 1 - Simplifying Expressions

#### **Round Table Activity Sheet**

1. The dimensions of a rectangle are (5x-5) and (4+4) Write an expression to represent the perimeter of the rectangle in simplest form.

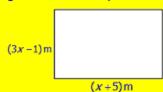
**DIRECTIONS:** Answer each question and show all of your work. Person A will answer the first question, then person B will check their work. Person B will then answer the second question, then Person C will check their work. Continue doing this until all the questions have been completed.

Person B:  Set up the expression to model the situation.  Person C:  Simplify the expression (combine like terms).  Person D:  Person D:  Find the perimeter if x = 2.  I 2 (2) - 2  24 - 2  Person A check & initial:  Person A check & initial:	Person A:	
Person B:  Set up the expression to model the situation.  (SX-5)+(X++1)+ (SX-5)+(X++4)  Person C:  Simplify the expression (combine like terms).  (SX-5)+(X++1)+ (SX-5)+(X++4)  Person D:  Person D:  Find the perimeter if x = 2.		
Person B:		
Person B: Set up the expression to model the situation.		
Person B: Set up the expression to model the situation.	x+4	
Person B: Set up the expression to model the situation.		
Set up the expression to model the situation. $(5 \times -5) + (\times + + +) + (5 \times -5) + (\times + + +)$ Person C check & initial:  Person D:  Find the perimeter if $x = 2$ . $(2 \times -3) + (2 \times -3) + (2 \times -4)$ Person D:  Find the perimeter if $x = 2$ .		Person B check & initial:
Person C check & initial:  Person C: Simplify the expression (combine like terms). $(5X-5)+(X+4)+(5X-5)+(X+4)$ $(5X-5)+(X+4)+(5X-5)+(X+4)$ $(5X-3)+(X+4)+(5X-5)+(X+4)$ Person D: Find the perimeter if $x=2$ . $(3(3)-3)+(3(3)-3)+(3(3)+(3(3)-3)+(3($	Person B:	
Person C check & initial:  Person C: Simplify the expression (combine like terms). $6x-6+(x+4)+(5x-6)+(x+4)$ $12x-2$ Person D: Find the perimeter if $x=2$ . $12(2)-2$ $24-2$	Set up the expression to model the situation.	
Person C check & initial:  Person C: Simplify the expression (combine like terms). $6x-6+(x+4)+(5x-6)+(x+4)$ $12x-2$ Person D: Find the perimeter if $x=2$ . $12(2)-2$ $24-2$	4 . A. G. L. A. L.	ev-6) + (X+4)
Person C check & initial:  Person C: Simplify the expression (combine like terms). $6x-6+(x+4)+(5x-6)+(x+4)$ $12x-2$ Person D: Find the perimeter if $x=2$ . $12(2)-2$ $24-2$	b	
Person C:		
Person C: Simplify the expression (combine like terms). $6x-6+(x+4)+(6x-6)+(x+4)$ Person D: Person D: $2x-6$ Find the perimeter if $x=2$ .		
Person C: Simplify the expression (combine like terms). $6x-6+(x+4)+(6x-6)+(x+4)$ Person D: Person D: $2x-6$ Find the perimeter if $x=2$ .		
Simplify the expression (combine like terms). $(5x-5)+(x+4)+(5x-5)+(x+4)$ Person D:  Person D:  Find the perimeter if $x = 2$ . $(3x-3)+(x+4)+(5x-5)+(x+4)$		Person C check & initial:
Person D:  Find the perimeter if $x = 2$ . $12(2) - 2$ $24 - 2$ $24 - 2$ Person D: $23$		
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Person D: $\_$ Find the perimeter if $x = 2$ . $12(2) - 2$ $24 - 3$ Person D check & initial: $\_$ Find the perimeter if $x = 2$ .	EV-67+(x+4)+ (5	X-5) + (X+4)
Person D: $\_$ Find the perimeter if $x = 2$ . $12(2) - 2$ $24 - 3$ Person D check & initial: $\_$ Find the perimeter if $x = 2$ .	6x-3/16, 11, 2-	
Person D:  Find the perimeter if $x = 2$ . $12(2) - 2$ $24 - 3$ $24 - 3$		
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Person D:  Find the perimeter if $x = 2$ . $12(2) - 2$ $24 - 3$		
Find the perimeter if $x = 2$ .  12(2) - 2 24 - 2		Person D check & initial:
12(2)-2 (22)		
24-2	Find the perimeter if $x = 2$ .	
24-2		
24-2	1 (2)-1	
	1 01 (01)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	0 H - 1	
Person A check & initial:	47-0	
Person A check & initial:		
		Person A check & initial:

#### Algebra 1: Unit 1 - Simplifying Expressions

#### **Round Table Activity Sheet**

2. Write an equation, in simplest form, of the rectangle below whose perimeter is 80 meters.



**DIRECTIONS:** Answer each question and show all of your work. Person A will answer the first question, then person B will check their work. Person B will then answer the second question, then Person C will check their work. Continue doing this until all the questions have been completed.

Person A:

How do you find the perimeter of a rectangle?

Add all the sides.

Person B check & initial: \_

Person B:

Set up the equation to model the situation.

Person C check & initial:

Person C:

Simplify the expression (combine like terms)

$$a(3x-1) + a(x+5) = 80$$
  
 $bx-a+ax+10=80$   
 $8x+9=80$ 

Person D check & initial:

Person D:

Can you find the value of x? What steps would you take?

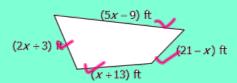
Use invense operations.

Person A check & initial: \_\_\_

#### Algebra 1: Unit 1 - Simplifying Expressions

#### **Round Table Activity Sheet**

3. Write an equation, in simplest form, for the perimeter of the quadrilateral below if the perimeter is 77 feet.



**DIRECTIONS:** Answer each question and show all of your work. Person A will answer the first question, then person B will check their work. Person B will then answer the second question, then Person C will check their work. Continue doing this until all the questions have been completed.

Person A:

How do you find the perimeter of this shape?

Person B check & initial:

Set up the equation to model the situation. (5x-9) + (21-x) + (x+13) + (2x+3)

Person C check & initial:

Person C:

Simplify the expression (combine like terms),

Person D check & initial: \_\_

Person D:

Can you find the value of x? What steps would you take?

use inverse operations

Person A check & initial: \_

## Algebra 1: Unit 1 – Simplifying Expressions

### **Round Table Activity Sheet**

4. Write an equation, in simplest terms, to find the measures of the two supplementary angles. The measure of the smaller angle is  $(2x-4)^o$ , and the measure of the larger angle is  $(2x)^o$ .

**DIRECTIONS:** Answer each question and show all of your work. Person A will answer the first question, then person B will check their work. Person B will then answer the second question, then Person C will check their work. Continue doing this until all the questions have been completed.

Person A:	
Draw a picture that represents this situation.	
<u> </u>	
2 x-4/2 x	
Lar Jar	
	Person B check & initial:
Person B:	
Set up the equation to model the situation.	
Set up the equation to moder the situation.	
2x-4 + 2x = 180	
$\frac{dx-4}{dx}$	
	Person C check & initial:
Person C:	
Simplify the expression (combine like terms).	
Simplify the expression (combine like terms).	
11 11 - 100	
41-4=180	
	Person D check & initial:
	Person D Check & Illidal.
Person D:	
Can you find the value of x? What steps would you take?	
Lv-4=190	
77 17 20	
79 +9	
x = 40	
4 X = 1 9 4	
4 4	
<b>\</b>	Person A check & initial:

