Name	Ms. Abadie's Period			
Chapter 3	Expressions (no equal sign) and Equations (equal sign)			
MAFS.7.EE.1.2	Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. For example, a + 0.05a = 1.05a means that "increase by 5%" is the same as "multiply by 1.05."			
Essential Question	What are terms and like terms and how do you identify them? In this lesson, I am identifying terms and like terms in an expression by first writing the expression as a sum of its terms so I can later apply this to adding/subtracting expressions and solving equations.			
3.1 Algebraic Expressions	Terms: parts of an algebraic expression separated by a plus or minus Like Terms: terms that have the same variable raised to the same exponent Constant Terms: like terms without variables			
	Simplest Form: an expression with no like terms and no parenthesis			
Homework 3.1 Practice A #1-3 Homework 3.1 Practice A #4-11	Identify the terms and like terms in the expression. 1. $y + 10 + \frac{3}{2}y$ 2. $2r^2 + 7r + r^2 + 9$ 3. $7 + 4p + 5 + p + 2q$ 3 terms $\frac{3}{2}y$ 4 terms $\frac{3}{2}Ar^2$, $\frac{3}{2}y$ 5 terms $\frac{3}{2}Ar^2$, $\frac{3}{2}Ar^2$ Like terms $\frac{3}{2}Ar^2$ 4. $\frac{3}{2}Ar^2$ 5 terms $\frac{3}{2}Ar^2$ 6. $\frac{3}{8}b - \frac{3}{4}b$ 6. $\frac{3}{8}b - \frac{3}{4}b$			
	-2z+22 6.8x-5 3b+8b -3b			
Homework 3.1 Practice A #4-11	Simplify the expression. 7. $3(q+1)-4$ 8. $-2(g+4)+7g$ 9. $7-4\left(\frac{3}{4}x-\frac{1}{4}\right)$			
	3q+3+4 $-2g-8+7g$ $7-3x+1$ $3q+1$ $5q-8$ $8-3x$			

MAFS.7.EE.1.1	Apply properties of operations as strategies to add, subtract, factor, and expand			
	linear expressions with rational coeffic	ients.		
Essential Question	How can you simplify linear expressions? In this lesson, I will add or subtract linear expressions using a vertical or horizontal method of combining like terms so I can simplify the expression down to a variable term and constant term.			
3.2 Adding and Subtracting Linear Expressions	<u>Linear expression</u> : is an algebraic expression in which the exponent of the variable is 1.			
Homework	Find the sum.			
3.2 Practice A #1-8	1. $(x+3)+(2x-1)$	2. $(-8z+4)+(8z-7)$		
	$3\chi + 2$	-3		
	3. $(4-n)+2(-5n+3)$	4. $\frac{1}{2}(w-6) + \frac{1}{4}(w+12)$ $\frac{1}{2}w - 3 + \frac{1}{4}w + 3$		
	4+h+10n+6	IW-3+IW+B		
	-11n+10			
	1111,10	2W+ 4W		
		34N		
Homework	Find the difference.			
3.2 Practice A #10-15	5. $(m-3)-(-m+12)$	6. $-2(c+2.5)-5(1.2c+4)$		
	m - 3 + m - 12	-2c -5 + 6c - 20		
	2m-15	-80-25		
	What is the sum of the two expression	ons?		
	$\left(\frac{2}{5}x+3\right)+\left(\frac{1}{5}x-1\right)$			
	多×+2			

	Find the difference of the two expressions.					
	$\left(\frac{2}{5}x+5\right) - \left(\frac{1}{5}x-3\right)$ $\frac{2}{5}x+5+\frac{1}{5}x+3$					
	5x +8					
	An expression is shown.					
	$2(\frac{3}{5}x+3)-(\frac{2}{3}x-1) \qquad \frac{6}{5}\chi+6-\frac{2}{3}\chi+1$					
	Create an equiva	lent expression with	out parentheses.			
	18 x + 7 - \$0 x 5 x + 7					
Factoring	Factoring means wr	riting the expression as	a product of its factors	by dividing each		
Expressions	term by the greatest common factor.					
Homework	Factor the expression	on using the GCE				
3.2 extension #1-9	1. $\frac{9}{3} + \frac{21}{3}$	2. 32 - 48	3. $8x + 2$	4. $\frac{3y - 24}{3}$		
	3(3+7)	16(2-3)	$3.8x + \frac{2}{2}$ 2 (4x+1)	3(4-8)		
	5. 20z - 8 4	6. $\frac{15w + 65}{5}$	$7. \underbrace{36a + 16b}_{4}$	8. $21m - 49n$		
	4 (52-2)	5(3W+13)	4(9a+46)	7 (3m-7n		
Homework	Factor out the coef	ficient of the variable.				
3.2 extension #10-17	9. $\frac{\frac{1}{3}b - \frac{1}{3}}{\frac{1}{3}}$	10. $\frac{3}{8}d + \frac{3}{4}$	11. $2.2x + 4.4$ 2.2 2.2	12. $\frac{4h-3}{4}$		
		0 8	2.2(x+2)	$4(h-\frac{3}{4})$		
	$\frac{1}{3}(b-1)$	$\frac{3}{8}(d+\frac{24}{12})$	404(15 09)			
		$\frac{3}{2}(d+2)$				

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MAFS.7.EE.2.4	Use variables to represent quantities in a real-world or mathematical problem, and construct				
	simple equations to solve problems by reasoning about the quantities.				
Essential	How can you solve a one-step equation using multiplication/division?				
Question	In this lesson, I will use multiplication/division properties of equality so I can solve one-step equations.				
3.4 Solving	The Multiplication Property of Equality: multiplying the same number to both sides of				
Equations	an equation produces an equivalent equation.				
using	The Division Decree of County of County and idding the agency of the fide of an				
Multiplication or Division	The Division Property of Equality: dividing the same number to both sides of an equation produces an equivalent equation.				
OI DIVISION	equation produces an equivalent equation.				
Homework 3.4 Practice A	Solve the equation. Check your solution.				
#1-6	1. $5x = -2(5)$ 2. $4a = -24$ 3. $3 = -15n$				
	1.5 $\frac{x}{5} = -2(5)$ 2. $\frac{1}{4} = -24$ 3. $\frac{3}{5} = -\frac{1}{5} = -\frac{1}{5}$				
	A = -1				
	$R = 24 \qquad -2 = n$				
	$Q = 24 \qquad -2 = 1$				
Homework					
3.4 Practice A					
#7-12	Solve the equation. Check your solution.				
	7 0 10 10 10 10 3 10				
	$4 + \frac{14}{3} = \frac{2}{3}x + \frac{3}{3}$ $5 = \frac{8}{5}b = 5 = \frac{3}{3}$ $6 = \frac{3}{8}h = -9 = \frac{8}{3}$				
	(B) (B)				
	-2 = 1				
	$b = \frac{24}{8}$				
	h = -58				
	7. The record low temperature in Hawaii is -0.15 times the record				
low temperature in Alaska. The record low temperature					
	is 12°F. What is the record low temperature in Alaska?				
	- 150 - 10				
	-0.15a = 12				
	-19 -18				
	$\alpha = -80$				

\$ 250°

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MAFS.7.EE.2.3	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically.				
Essential Question	How can you solve a two-step	equation? fequality so I can solve two-step eq	uations.		
3.5 Solving Two-Step	Solve the equation. Check your solution.				
Equations	1. $2x + 12 = 4$	2. $-5c+9'=-16$	3. $3(x-4)=9$		
	-12 -12	79 -9	3x-12x 9		
Homework 3.5 Practice A #1-9	3x = -8	-5c = -25	37 71		
	×=-4	3-5	3/4 3		
			$\chi = 7$		
Lla magnetale	Solve the equation. Ch		- A		
Homework 3.5 Practice A #10-12	4. $\frac{m}{2} + 6 = 10$	5. $-\frac{z}{3} + 5 = 9$	6. $\frac{2}{5} + 4a = -\frac{6}{5}$		
	(2) m = 4(2)	(3) Z = 4(-3)	5 5		
	2	-3	40 = 6		
	m=8	2=12	4 4		
			$Q = \frac{8}{20}$		
Homework	Solve the equation. Check your solution.				
3.5 Practice A #16-18	7. $4-2y+3=-9$	8. $7x - 10x = 15$ 9.	-8 = 1.3m - 2.1m		
#10-10	-2y+7=-9 -7	-8x=15 -3	-8= -8m -8 -8		
		X=-5	10 = m		
	y = 8				

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