

School:	DepEdClub.com	Grade Level:	VI
Teacher:	File created by Ma'am ANNALICE R. QUINAY	Learning Area:	MATHEMATICS
Teaching Dates and			
Time:	MARCH 20 - 24, 2023 (WEEK 6)	Quarter:	3 <sup>rd</sup> QUARTER

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
I. OBJECTIVES	The learner					
A. Content Standard	demonstrates understanding of sequence in forming rules, expressions and equations.					
B. Performance Standard	is able to apply knowledge of sequence, expressions, and equations in mathematical problems and real-life situations.					
C. Learning Competencies /			ical expressions and equations such as 7+		Answer the questions on	
Objectives	creates routine and non-routine pr	oblems involving numerical expressions a	and equations.		Chapter Test , page 97-98	
II. CONTENT	Patterns and Algebra	Patterns and Algebra	Patterns and Algebra	Patterns and Algebra		
III. LEARNING RESOURCES						
A. References						
1. Teacher's Guide pages	21 <sup>ST</sup> Century Mathletes, p.85-90	21 <sup>ST</sup> Century Mathletes, p.85-90	21 <sup>ST</sup> Century Mathletes, p.91-93	21 <sup>ST</sup> Century Mathletes, p.91-93		
2. Learner's Materials pages	21 <sup>st</sup> Century Mathletes 6, 200-209	21 <sup>st</sup> Century Mathletes 6,	21st Century Mathletes 6	21 <sup>st</sup> Century Mathletes 6,		
3. Textbook pages	21 <sup>st</sup> Century Mathletes 6	21st Century Mathletes 6	21st Century Mathletes 6	21 <sup>st</sup> Century Mathletes 6,		
4. Additional Materials from Learning Resource (LR) Portal						
B. Other Learning Resources	Mathletes 6 textbook, video clip, power point presentation	Mathletes 6 textbook, video clip, power point presentation, drawings of patterns, picture cards	Mathletes 6 textbook, video clip, power point presentation	Mathletes 6 textbook, video clip, power point presentation		
IV. PROCEDURES						
A. Reviewing previous lesson or presenting the new lesson	Drill: Determining what number should be in place of the question mark to make the mathematical statement correct.	A. Simplify each of the expression by combining like terms. Follow the order of operations.	Put the known terms together on one side and the unknown terms on the other side of the equation.	A. Simplify each expression. Follow the rules from the order of operation.	Preparation	
	1. +7=11 2. 96/? = 6 3. 2 x (15-?) = 20 4. 5 x (? + 2) = 15 5. ? + 3 = 21 - ? Review: Translate the ff. sentences to algebraic equations	Example: $3m+5m = 8m$ , $5p+2y-3p = 5p-3p+2y = 2p+2y$ , $8p+2p-7q = 10p-7q$ 1. $6a+59 = 2$ , $7x-5x = 3$ , $9+2+x = 4$ , $3p+5-2p = 5$ , $4t+3-2t+6 = 4$	Examples: 2x + 4 = 20 2x = 20 - 4, 3a - 8 = 10 3a = 10 + 8 1. 4b + 7 = 41 2. 7a + 5 = 54 3. 5 + 8y = 77 4. 4a + 35 = 51 Ans:	1. 8x + 9 - 3 + 2x 2. 12 - 2*5 + 3y + y 3. 9a - 3a*2 + 6a - 9 4. 7 + 9*3 + 5n - 3n 5. 36c + 11c - 9c + 4d		
	1.Twice a number is equal to six.	6. 7a + 2a + 3b =				

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	2.If three times a number is decreased by two, the answer is seven. 3.The ratio of a number and ten is two. 4.Half of the sum of a number and three is six 5.The difference of seven and a number is equal to six times the number.	Ans: A. 1.11a 2.2x 3.11+x 4. 1p+5 or p+5 5.2t+9 6.9a+3b	B. 1.4b = 41 - 7 2.7a = 54 - 5 3.8y = 77 - 5 4.4a = 51 - 35	Example: Translate Addition and Subtraction Phrases  1. A number plus 9  2. The sum of 22 and a number  3. A number increased by 2  4. Somore than a number  5. A number decreased by 17  6. The difference between 12 and a number  7. 31 minus a number  8. 1 less than a number  9. A number increased by 5  9. 10. 17 minus a number	
B. Establishing a purpose for the lesson	Impress your pupils by being able to guess the number they are thinking of. Ask a pupil to think of any number from 1-10. Have it undergo a series of operations and have the pupil update the answer in his mind in every operation done. Finally, ask the pupil to give the answer he or she had to the last operation done. Using your knowledge of algebra and working backward, guess the original number.	Show a video to the pupils "Solving Equation Song"	Show the video of Beginning Algebra & Word Problem Steps	Show a video to the pupils https://www.youtube.com/watch? v=-EwUcnZx4dI	Test Proper
C. Presenting Examples/Instances of new lesson	Ige is twice as old as his brother Elmo. The sum of their ages is 21. How old are they now? Present the ways in solving equations in the form ax + b = c. use 2x + 3 = 7 as an example	<ol> <li>Consider the ff. verbal sentences.</li> <li>A number increased by 5 is         <ol> <li>The sum of two numbers is</li> <li>If the first number is 3,                 what is the second number?</li> </ol> </li> <li>If we let x be the unknown         <ol> <li>number, how can these</li> <li>sentences be translated into                 mathematical equations?</li> <li>What is the value of x?</li></ol></li></ol>	Read and solve this problem:  A basket is full of fruits with bananas and mangoes. The bananas are 3 times the number of mangoes. How many of each kind of fruits are there, if there are 20 fruits in the basket?  The number of mangoes is unk?nown, so let us represent n for mangoes.  n = number of mangoes  The bananas are 3x the number of mangoes, so if n is number of mangoes; the number of banana is 3n.  3n = number of bananas  Add the number of mangoes and bananas and we will have the total number of fruits. Since the total number of fruits is 20, therefore, the equation will be:  3n + n = 20	Let us find the value of the variable in another equation. Solve for variable $x$ in $5x - 3x = 24$ . $5x - 3x = 24$ $5x$ and $3x$ are two like terms, so we can subtract to get $2x$ . $2x = 24$ to find the value of $x$ , divide $24$ by $2$ . $X = 24 \div 2$ $X = 12$ To check, let us evaluate $5x - 3x$ , given $x = 12$ $5x - 3x = 5$ $(12) - 3$ $(12) = 60 - 36$ $= 24$ , then $24 = 24$ Therefore, $12$ is the solution to the equation $5x - 3x = 24$ .	Checking

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				Let's find the solution to variable n is	When we add or subtract like	
				the equation, $3n + n = 20$ .	terms, add or subtract the	
				3n + n = 20 simplify $3n + n$ . They	number part of the terms, while	
				are two like terms, so we can add to	the variable remains the same.	
				get 4n.	The	
				4n=20 we know 4n means 4 times n.	number part of a term is called	
				$n = 20 \div 4$ to get the value of n, divide	the coefficient of 5x is 5 and the	
				20 by 4. n = 5	variable is x.	
				the solution to variable n in the	Other expressions have unlike	
				equation 3n + n = 20 is 5.	terms like $4x + 2y$ and $5x + 3$ .	
				n is the number of mangoes, so there	The unlike terms of 4x + 2y are 4x	
				are 5 mangoes.	and 2y. We cannot add or	
				3n is the number of bananas, so there	subtract unlike terms. 8x and 2 are	
				are 15 bananas.	unlike terms, so we cannot add	
				To check, given the value n = 5, lets	8x + 2.	
				evaluate 3n + n.	OX · 2.	
				3n + n = 3(5) + 5 = 15 + 5 = 20, then 20		
				=20		
				Therefore the value of the variable n in		
				3n + N = 20 is 5.		
H	D. Discussing now concents and	Define the ff. term:	Study those other examples of finding		Study this avample: avaluate the	Recording
	D. Discussing new concepts and		Study these other examples of finding	Discussion: Try to look at how	Study this example: evaluate the	Recording
	practicing new skills #1	<ul> <li>Solution- a number that</li> </ul>	solution to equations:	expressions are simplified.	expression, 5x + 3.2x – 5,	
		manian na ninahania	1. Final the endustrante contable with	a F u   b   b   a   2 u   V u   V   2 u u	=:a.a.v. 4	
		makes an algebraic	1. Find the solution to variable x in	a. 5 x k = 5k	given x = 4.	
		equation true or	1. Find the solution to variable x in the equation, $x + 3 = 19$ .	b. a ÷ 7 = a/7 e. 5 x b ÷ 8 = 5b/8	5x + 3.2x - 5 = 5(4) + 6x - 5 = 20 +	
		equation true or correct.	the equation, $x + 3 = 19$ .	b. $a \div 7 = a/7$ e. $5 \times b \div 8 = 5b/8$ c. $a \times b \times a = a^2b$ f. $(c \times d) \div (e \times f) =$	5x + 3.2x - 5 = 5(4) + 6x - 5 = 20 + 6(4) - 5 = 20 + 24 - 5 = 39	
		equation true or correct. Introduce the 4 basic rules for	the equation, $x + 3 = 19$ . X + 3 = 19 transpose 3 to the	b. $a \div 7 = a/7$ e. $5 \times b \div 8 = 5b/8$ c. $a \times b \times a = a^2b$ f. $(c \times d) \div (e \times f) =$ cd/ef	5x + 3.2x - 5 = 5(4) + 6x - 5 = 20 + 6(4) - 5 = 20 + 24 - 5 = 39 Substitute the value of X and	
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		equation true or correct.  Introduce the 4 basic rules for solving equations.  1. Addition Property of Equality: if the same quantity is added to both sides of an equation, the resulting equation is equivalent to the original equation.  2. Subtraction Property of Equality: If the same quantity is subtracted from both sides, the resulting equation is equivalent to the original.  3. Multiplication Property	the equation, $x + 3 = 19$ . X + 3 = 19 transpose 3 to the other side of the equation using the inverse operation $x = 19 - 3$ $x = 16To check, evaluate x + 3, given x = 16 x + 3 = 16 + 3 = 19 the result is 19, therefore 16 is the value of x in$	b. a ÷ 7 = a/7 e. 5 x b ÷ 8 = 5b/8 c. a x b x a = a²b f. (c x d) ÷ (e x f) = cd/ef Another example: If we give a value to the variable, we can evaluate an algebraic expression. Let's evaluate 2a + 3b, if a = 5 and b = 8.  2a means 2 times a and we write: 2*a or 2 (a) 3b means 3 times b and we write: 3*b or 3(b) To evaluate 2a + 3b, given a=5 and b=8, we may do this: 2a + 3b = 2(5) + 3(8) = + 24 = 34 Notice that we get a number when we evaluate an expression. We also need to follow the rule of operations. That is, starting from	5x + 3.2x - 5 = 5(4) + 6x - 5 = 20 + 6(4) - 5 = 20 + 24 - 5 = 39 Substitute the value of X and multiply, before adding and subtracting to get the answer of	
		equation true or correct.  Introduce the 4 basic rules for solving equations.  1. Addition Property of Equality: if the same quantity is added to both sides of an equation, the resulting equation is equivalent to the original equation.  2. Subtraction Property of Equality: If the same quantity is subtracted from both sides, the resulting equation is equivalent to the original.	the equation, $x + 3 = 19$ . X + 3 = 19 transpose 3 to the other side of the equation using the inverse operation $x = 19 - 3$ $x = 16To check, evaluate x + 3, given x = 16 x + 3 = 16 + 3 = 19 the result is 19, therefore 16 is the value of x in$	b. a ÷ 7 = a/7 e. 5 x b ÷ 8 = 5b/8 c. a x b x a = a²b f. (c x d) ÷ (e x f) = cd/ef Another example: If we give a value to the variable, we can evaluate an algebraic expression. Let's evaluate 2a + 3b, if a = 5 and b = 8. 2a means 2 times a and we write: 2*a or 2 (a) 3b means 3 times b and we write: 3*b or 3(b) To evaluate 2a + 3b, given a=5 and b=8, we may do this: 2a + 3b = 2(5) + 3(8) = + 24 = 34 Notice that we get a number when we evaluate an expression. We also need to follow the rule of	5x + 3.2x - 5 = 5(4) + 6x - 5 = 20 + 6(4) - 5 = 20 + 24 - 5 = 39 Substitute the value of X and multiply, before adding and subtracting to get the answer of	

	multiplied by the same					
	(nonzero) quantity, the					
	resulting equation is					
	equivalent to the					
	original equation.					
	4. Division Property of					
	Equality: If both sides of					
	an equation are divided					
	by the same (nonzero)					
	quantity, the resulting					
	equation is equivalent					
	to the original equation.					
	Give the ff. examples to be					
	solved using different					
	methods.					
	1. N + 5 = -5					
	2. 5y – 2 = 18					
	3. C + 18 = 29					
	432 = 15 + d					
	5. 3f = -12					
E. Discussing new concepts and	Study another example:	Find the value of the variable in 6n +	Find the solution to 9x	-3 = 15.	Write the following algebraic	
practicing new skills #2	Find the value of $\frac{2n}{3}$ – 4 = 10	2n + 5 = 29.			expressions without using the	
	-3		9x - 3 = 15 transp	pose 3 to the	multiplication signs.	
	21 21 (20)	6n + 2n + 5 = 29 add like terms $6n$	other side of the equat	tion using the		
	$-3\left(\frac{2n}{-3}-4\right)=(10)(-3)$	and 2n to get 8n.	inverse operation		Example: a.) $5 \times b = 5b$ b.) $6 \times$	
	multiplying both sides by	8n + 5 = 29 transpose 5 to the	9x = 15 + 3		(c+7) = 6(c+7)	
	-3. (MPE)	other side of equation using the	9x = 18 to find the va	alue of x, divide		
	2n + 12 = -30	inverse operation.	18 by 9.		1. 7 x a =	
	2n + 12 – 12 = -30 -12 Subtract	8n = 29 – 5	$X = 18 \div 9 X = 2$		2. X x 10 =	
	12 from both sides (SPE)	8n = 24 to find the value of n,			3. 5 x (a+2) =	
	2n= -42	divide 24 by 8.	To check, evaluate 9x –	_	4. 4 x a + 5 x b =	
	$\frac{2n}{2} = \frac{-42}{-2}$ Divide both sides by	$n = 24 \div 8$ $n = 3$	9x - 3 = 9(2) - 3 = 18 -	3 = 15 the	5. 1 x n – 10 =	
	2 (DPE)		result is 15, therefore		6. 5 + 2 x c =	
		To check, evaluate 6n + 2n + 5,	2 is the solution to	the		
	Group Activity:	given n = 3.	equation $9x - 3 = 1$	L5.	Group Activity:	
	B. Find the solution to each	6(3) + 2(3) + 5 = 18 + 6 + 5 = 29	Group Activity:		Creates routine and non-routine	
	equation.	The result is 29, therefore 3 is the	Creates routine and no		problems involving numerical	
	6. 9x + 3 = 48	value of n in 6n + 2n + 5 = 29	problems involving nur		expressions and equation. Let the	
	7. 3b + 14 = 29		expressions and equat	ions using the	other group answer the problem	
	8. 4n – 10 = 38	Notice that we put the known term	data given below.		you had created.	
	Ans.:	on one side of the equation	Item	Price		
		and the unknown on the other side.	Bath soap	₱35.50		
		The term with variable, 8n is the	Toothpaste	<del>P</del> 55.50		

	A. 1. x = 8 2. n = 10 3. c = 21 4. a = 6 5. p = 2 B. 6. 5 7. 5 8. 12  Group Activity: Creates routine and non-routine problems involving numerical expressions and equation. Let the other group answer the problem you had created.	unknown and the known terms are 5 and 29.  An equation has two sides separated by the = symbol. When we transpose terms from one side of the equation to the other side, we use the inverse operation.  Like for example $9x - 3 = 15$ , transpose 3 to the other side, it becomes $9x = 15 + 3$ , likewise $8n + 5 = 29$ becomes $8n = 29 - 5$ .	Shampoo		
F. Developing mastery (Leads to Formative Assessment)	Group Activity: Assigned the given examples on page 239-246 of Mathlete Txbk. Let the leaders of the group explain the assigned problems to them.	A. Simplify each of equation by combining like terms. Follow the order of operation.  1. $2x + 9x - 3 - 5x = 6x - 3$ 2. $5n - 3n + 6 - 3 =$ 3. $9y + 20 - 5 + 6 =$ 4. $12a - 2a + 5 =$ 5. $12y + 8 - 2y + 6 =$	Solve each equation then check: 1. $z/4-7=3$ 2. $3x/4=-9$ 3. $-5y/-2=10$ Find for the solution of each equation. 1. $x+15=23$ 2. $6x-8=10$ 3. $4b-12=24$	. Find for the solution of each equation.  1. 2b + 10 = 12  2. 8 + 5x = 41  3. 6c - 42 = 12  4. 3n = 60 + n  5. 7a + 5 = 54	
G. Finding practical applications of concepts and skills in daily living	Give the scenarios and tell the pupils to follow this flow in solving the equation:  a. What is asked? b. What are the given facts? c. What equation shall we do to solve the problem? What is the solution to the equation?  (See TG on page 96)	Write an algebraic equation and solve the equation. During the council meeting, the number of women is 2 times the number of men. How many women and men attended the meeting if there were 30 people present? Group Activity: Creates routine and non-routine problems involving numerical expressions and equation. Let the other group answer the problem you had created.	A. Solve for the variable in each equation.  1. 3x + 8 = 32	Evaluate each expression, given x = 2 and y = 3. 1 2x + 4y = 2(2) + 4(3) = 4 + 12 = 16 2. 12y + 3x = 3. 5x * 2y = 4. 8x - 3y = 5. 7x - 4y + 6xy =	
H. Making generalizations and abstractions about the lesson	subtraction, multiplication or divis To evaluate an expression means t	bination of numbers constant and variabl	n, given the value of the variables.		

I. Evaluating Learning	Refer to textbook, pages 247 and	Refer to toythook, pages 247 and let	Write an expression for each	Answer the ff. problems.	
i. Evaluating Learning	let the pupils answer Evaluate	Refer to textbook, pages 247 and let the pupils answer Evaluate A-C, all	problem/situation and solve the	1.Four friends share a box of pens.	
	A-C, all even-numbered items.	even-odd items.	expression.	Each receives 3 pens. Write and	
	A-C, an even-numbered items.	even-odd items.	expression.		
			1.Helen is 13 years old, Helen's father is	solve the equation to find the number of pens in the box.	
				•	
			4 years more than twice her age.  2.Edna is 155 cm tall. Lilia's height is 10	2.There are 56 pupils in a class. Thirty-six of them joined the	
			cm less than twice Edna's height.	_ ·	
			3.Roman weights 25 kilograms. His	fieldtrip. Write an equation to find the number of pupils who did	
			father weights 5 kg less than 3 times	not join the fieldtrip.	
			Romans weight.	3.A can travels at an average span	
			4.Francis is ten years old. Ben is twice	of 36 km per hour. Write and	
			as old as Francis.	solve an equation to predict how	
			5.Aning is five years old. I am six years	many hours it will take to travel	
			more than thrice her age.	432 km if it continues at this	
			I more than thrice her age.	speed.	
				speed.	
J. Additional activities for	Answer Math Challenge on page 2	10			
application and remediation	Allswei Math Challenge on page 2	46			
V. Remarks					
VI. REFLECTIONS					
A. No. of learners who earned					
80% on the formative					
assessment					
B. No. of learners who require					
additional activities for					
remediation who scored below					
80%					
C. Did the remedial lessons work?					
No. of learners who have					
caught up with the lesson					
D. No. of learners who continue to					
require remediation					
E. Which of my teaching strategies					
worked well? Why did this					
work?					

F.	What difficulties did I encountered which my principal or supervisor can help me solve?			
G	G. What innovation or localized materials did I use/discover which I wish to share with other teachers?			