EaD Comprehensive Lesson Flans



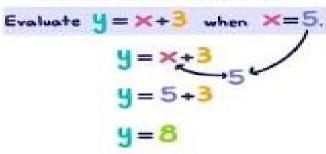
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BASIC 7

WEEKLY LESSON PLAN – WEEK 5

Strand:	Algebra	St	ıb-Strand:		Algebraic Expressi	ions	
Content Standard:	B7.2.2.1 Simplify algebraic expressions involving the four basic operations and substituting values to evaluate algebraic expressions.						
Indicator (s)	B7.2.2.1.4 Substitute values to evalgebraic expressions. B7.2.1.1.5 Use properties of the operations to simplify algebraic expressions with rational coeffici		the four	Performance Indicator: learners can identify the four properties of Algebra.			
Week Ending	05-05-2023						
Class	B.S.7	Class Size:			Duration:		
Subject	Mathematics						
Reference	Mathematics Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.						
Teaching / Learning Resources	Charts, Poster, Pictures.			Core Competencies:		 Analyze and make distinct judgment about viewpoints expressed in an argument Ability to effectively define goals towards solving a problem 	
DAYS	PHASE 1 : STARTER	PHASE 2: N	IAIN			PHASE 3: REFLECTION	
MONDAY 01-05-2023	Review Learners knowledge on simplifying expressions	 Demonstrate on how to simplify expressions by substituting values for variables Assist Learners to substitute values in expressions to evaluate them. Learners brainstorm to find the perimeter and area of the shapes by substituting values in place of variables . 		Reflect on how to substitute values to evaluate expressions. Exercise; 1. The area of a rectangular fence is 500 square feet. If the width of the fence is 20feet, then find its length. Here the area and the width of the rectangular fence are given. find the length of the fence.			

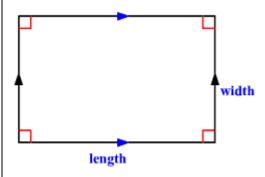
Substituting for a Variable



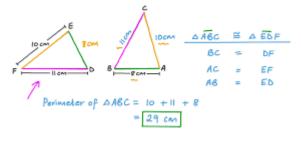
Example 1:

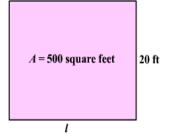
The perimeter of a rectangular pool is 56 meters. If the length of the pool is 16 meters, then find its width. Here the perimeter and the length of the rectangular pool are given. We have to find the width of the pool.

A rectangle is a <u>parallelogram</u> with four right angles. All rectangles are also parallelograms, but not all parallelograms are rectangles.



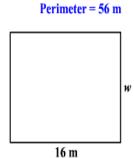
Triangles ABC and EDF are congruent. What is the perimeter of AABC?





2. The perimeter of a rectangular pool is 56 meters. If the length of the pool is 16 meters, then find its width.

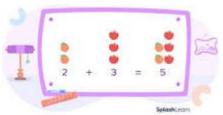
Here the perimeter and the length of the rectangular pool are given. find the width of the pool.



TUESDAY 02-05-2023	Asist Learners to identify the properties of operations in algebraic expressions.	 Learners brainstorm to identify the properties of algebraic operations. Demonstrate on using the distributive property to simplify expressions. Assist Learners to simplify expressions using the distributive property with rational coefficients. DIFFERENT FORMS OF THE DISTRIBUTIVE PROPERTY If a,b,c are real numbers, then a(b+c) = ab+ac Other form a(b-c)=ab-ac (b+c)a=ba+ca 		Through questions and answers, conclude the lesson. Exercise; Simplify the following using commutative properties; 1. 3(x+4) 2. 6(5y+1) 3. 3/4(n+12) 4. 2/1(p+4)
		Property Commutative Associative Identity Inverse	Example $a + b = b + a, a b = b a$ $a + (b + c) = (a + b) + c, a (b c) = (a b) c$ $a + 0 = a, a \cdot 1 = a$ $a + (-a) = 0, a \cdot 1 = 1$	5. 14(21// <i>d</i> +7/2)
THURSDAY 04-05-2023	Through questions and answers, review Learners knowledge on the previous	express 2. Assist L involvir 3. Learner and cor	the commutative property of algebraic sion with the Learners. earners to simplify algebraic expressions ag the use of commutative properties. Its brainstorm to compare the distribute mmutative properties of Algebra.	Assist Learners to come the four properties of expressing algebraic expression.
	lesson.	xy = yx		REMARKS



- $1 \times 2 = 2 \times 1 = 2$.
- $3 \times 8 = 8 \times 3 = 24$.
- $12 \times 5 = 5 \times 12 = 60$



Commutative Property of Addition Examples:

- 15 + 16 = 16 + 15 = 31.
- \bullet 4 + (-6) = (-6) + 4 = (-2)
- 0.5 + 0.6 = 0.6 + 0.5 = 1.1.
- 15+25=25+12=35.

Unlike the Associative and Commutative Properties, there are not two versions (one for addition and another for multiplication) of the Distributive Property. Instead, both multiplication and addition occur within the one rule. Since they distributed through the parentheses, this is true by the Distributive Property.

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