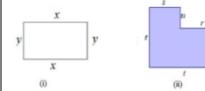
Fayol Inc. 0547824419

SECOND TERM WEEKLY LESSON NOTES WEEK 6

Date: 17 th JUNE, 2022		DAY:		Subject: Mathematics	
Duration:				Strand: Algebra	
Class: B7	Class Size:			Sub Strand: Algebraic	Expressions
Content Standard: B7.2.2.1 Simplify algebraic expressions involving to four basic operations and substituting values to evaluate algebraic expressions.				erform addition and f algebraic expressions coefficients.	Lesson:
Performance Indicator: Learners can perform addition and subtraction of all expressions			braic	Core Competencies: Communication and Critical Thinking and	Collaboration (CC)
References: Mathematics	Curriculun	n Pg. 36-37			
Phono/Dumosico	Lagranava	A asiv (is:			Dagayyaga
Phase/Duration PHASE I: STARTER	Learners		2011000 001:	we to find out what	Resources
PHASE I: STARTER	learners a	already know	about Algeb	ew to find out what oraic Expressions. duce the lesson.	
PHASE 2: NEW LEARNING	Guide learners to add algebraic expressions. Let learners understand that, only like terms can be added or subtracted to give a single term. Example: 1). $4x + 3x + x = 8x$ 2). $5x + 4x + 2x + 3x = 14x$ 3). $s + s + s + t + t + k + k + k + k + k + k + k + k$				Counters, bundle and loose straws base ten cut square, Bundle of sticks, rectangular cut out, bottle tops, algebra tiles





(i) perimeter =
$$l + l + b + b$$

= $x + x + y + y$
= $2x + 2y$

Engage learners to practice with more examples. Go round the class and provide assistance to the slow learners.

Guide learners to subtract algebraic expressions.

Example:
$$3x - 4x - 2x = -3x$$

$$7x - 4x - x = 2x$$

Guide learners to add and subtract algebraic expressions.

Example:
$$5x + 4 - 9y + 3x + 2y - 7$$

We first group like terms taking notice of the operation signs.

$$= 5x + 3x - 9y + 2y + 4 - 7$$

$$= 8x - 7y - 3$$

E.g.2.
$$7xy + 5x - 4x + 2xy - 3$$

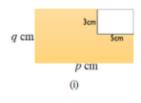
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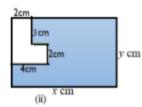
$$= 7xy + 2xy + 5x - 4x - 3$$

$$= 9xy + x - 3$$

Engage learners to practice with more examples. Go round the class and provide assistance to the slow learners.

Learners to write an expression for the perimeter of the shaded region.





Assessment

Simplify the following expressions

1.
$$5x + 4 - 9y + 3x + 2y - 7$$

2.
$$4x + 2y + 3x + 5y$$

3.
$$2p - 3q + 3p + 5q$$

	4. $4x^2y + 5xy^2 + 3x^2y - 2xy^2$ 5. $x^2 + x + 2x^2$	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Date: 17 th JUNE, 2022		DAY:		Subject: Mathematics	
Duration:				Strand: Algebra	
Class: B7		Class Siz	e:	Sub Strand: Algebraic	Expressions
Content Standard: B7.2.2.1 Simplify algebraic expressions in the four basic operations and substituting to evaluate algebraic expressions.				orm multiplication and braic expressions with ients.	Lesson: 2 of 2
Performance Indicator: Learners can perform multiplication and expressions		division of algebraic		Core Competencies: Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)	
References: Mathematics	Curriculun	n Pg. 38-39)		B (-)
Phase/Duration	Learners				Resources
PHASE I: STARTER	Revise with learners on the previous lesson. Call volunteer learners to the board to solve sample questions.				
PHASE 2: NEW LEARNING	Introduce the lesson by sharing performance indicators. Guide learners to solve multiplication of algebraic expressions. It is easier to group the numbers and the same letters together and then use the basic rules of indices. Example: $4p \times 8p^2$ $= 4 \times 8 \times (p^{1+2})$ $= 32p^3$ E.g.2. $5xy^2 \times 4x^4y^3 = 20x^5y^5$ Guide pupils to perform activities like "think of a number" game which involves multiplying algebraic expressions.			Counters, bundle and loose straws base ten cut square, Bundle of sticks, rectangular cut out, bottle tops, algebra tiles	
	following 3y cm (i) Guide lea Example:	shapes: 3y cm rners to so the following $\frac{y^2}{4}$	2v cm (ii)	g cm 3cm 5cm (iii)	

	$= \frac{3}{4} \times (x^{2})^{*}(y^{-2}) = \frac{3}{4} \times 2y^{-2}$ E.g. II. $\frac{-30abc}{6ab^{3}c^{-2}}$ $= \frac{-30}{6} * (a-a)(b^{1-3})(c^{-1-3})$ $= -5 * (b^{-2})(c^{-4}) = -5b^{-2}c^{-4}$ Assessment Simplify the following expression: 1. $5p \times 7p^{2}$ 2. $6 \times y^{3} \times 4 \times 5y^{6}$ 3. $-2b \times 5a \times 9c$ 4. $-3 \times y^{5} \times 7y$ 5. $\frac{18x^{5}y^{2}}{24x^{7}y^{2}}$	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	