

WEEK 4

Date: 11 TH FEB, 2022	Day:	Subject: Mathematics
Duration: 45mins		Strand: Number
Class: B7	Class Size:	Sub Strand: Number Operations
Content Standard: B7.1.2.1 Apply mental mathematics strategies and number properties used to solve problems		Indicator: B7.1.2.1.2 Apply mental mathematics strategies and number properties used to perform calculations
		Lesson: 2 of 3
Performance Indicator: Learners can apply mental mathematics strategies in solving math problems.		Core Competencies: CP, CC
References: Mathematics Curriculum Pg.7		
Keywords: mental, strategies		
Phase/Duration	Learners Activities	Resources
PHASE 1: STARTER	<p>Revise with learners on what was taught in the previous lesson.</p> <p>Share with learners the performance indicators.</p>	
PHASE 2: NEW LEARNING	<p>Guide learners to apply the halving and doubling techniques to determine the product of two given numbers.</p> <p>i. 28×5, think $14 \times 10 = 140$</p> <p>ii. 125×4, think $(125 \times 2) \times 2 = 250 \times 2 = 500$</p> <p>Have learners to solve mathematics problems involving the properties of operations. Example: the commutative property. <i>In mathematics, a binary operation is commutative if changing the order of the operands does not change the result.</i> <i>If a and b are rational numbers and $a \times b = b \times a$.</i> <i>Then we say multiplication of rational numbers is commutative.</i> E.g. $2 \times 3 = 3 \times 2$</p> <p>Guide learners to apply the distributive property to determine the product of two given numbers. Example: i. $7 \times 15 = 7 \times (10 + 5) = 70 + 35 = 105$ ii. $18 \times 6 = (20 - 2) \times 6 = (20 \times 6) - (2 \times 6) = 120 - 12 = 108$</p> <p><u>Assessment</u> Solve the following</p>	<p>Counters, bundle and loose straws base ten cut square, Bundle of sticks</p>

	a) 68×50 e) 95×13 b) 98×38 f) 27×19 c) 62×11 g) 88×14 d) 83×43 h) 93×65	
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: 11 TH FEB, 2022	Period:	Subject: Mathematics
Duration: 100mins		Strand: Number
Class: B7	Class Size:	Sub Strand: Number Operations
Content Standard: B7.1.2.1 Apply mental mathematics strategies and number properties used to solve problems	Indicator: B7.1.2.1.3 Apply mental mathematics strategies to solve word problems.	Lesson: 3 of 3
Performance Indicator: Learners can solve word problems		Core Competencies: CP, CC
References: Mathematics Curriculum Pg.7		
Keywords: mental, strategies		
Phase/Duration	Learners Activities	Resources
PHASE 1: STARTER	Revise with learners on what was taught in the previous lesson. Share with learners the performance indicators.	
PHASE 2: NEW LEARNING	Guide learners use mental strategies to perform addition using words like plus, add, calculate the sum, increase a number by, and find the total; E.g.1. what is $23 + 34 + 45 + 78 = 180$ E.g.2. Add the following numbers; 45, 10 and 57 E.g.3. calculate the sum of the following numbers; 1,2,3,4,5,6,7,8,9 E.g.4. Increase 45,000 by 234 Guide learners use mental strategies to perform subtraction using words like minus, from a number take, , find the difference, and what must be added to make; E.g.1. what is $109 \text{ minus } 49 = 60$ E.g.2. from 89 take away 32 E.g.3. find the difference of 586 and 158. E.g.4. what must be added to 102 to make 574. Guide learners use mental strategies to perform multiplication using words like times, multiply, find	Counters, bundle and loose straws base ten cut square, Bundle of sticks

	<p>the product, square, and what must be divided by ... to give ...;</p> <p>Guide learners use mental strategies to perform division using words like divide, share, how many times does it go into? and what must be multiplied by ... to give ...</p> <p><u>Assessment</u></p> <ol style="list-style-type: none"> 1. How many 40's must be added together to get a sum equal to 240? 2. Lucy went to the grocery store. She bought 12 packs of cookies and 16 packs of noodles. How many packs of groceries did she buy in all? 3. Multiply 96358 by 524 	
<p>PHASE 3: REFLECTION</p>	<p>Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.</p> <p>Take feedback from learners and summarize the lesson.</p>	