

FIRST TERM
WEEKLY LESSON NOTES
WEEK 7

Week Ending: 24-02-2023	DAY:	Subject: Mathematics
Duration: 60MINS		Strand: Number
Class: B8	Class Size:	Sub Strand: Addition & Subtraction
Content Standard: B8.1.2.2 Apply the understanding of the addition and subtraction to solve problems and round answers to given decimal places.		Indicator: B8.1.2.2.1 Add and subtract more than four-digit numbers.
		Lesson: 1 of 2
Performance Indicator: Learners can add and subtract more than four-digit numbers.		Core Competencies: Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)
References: Mathematics Curriculum Pg. 93		
Phase/Duration	Learners Activities	Resources
PHASE 1: STARTER	Revise with learners on the previous lesson. Share performance indicators with learners and introduce the lesson.	
PHASE 2: NEW LEARNING	Guide learners to use the partitioning (or expanded form) and place value system to add and subtract whole and decimal numbers. (i) Add 896854 and 76329 $\begin{array}{r} 896854 = 800,000+90000+6000+800+50+4 \\ + 76329 = \quad \quad 70000+6000+300+20+9 \\ \hline 973183 = 900000+70000+3000+100+80+3 \end{array}$ (ii) Add 3627.6 and 854.13 $\begin{array}{r} 3627.60 = 3000+600 + 20 + 7 + \frac{60}{100} \\ + \\ 854.13 = 800+50 +4 + \frac{1}{10} + \frac{3}{100} \\ \hline 3000+800 +600 + 20+ 50 + 7+ 4 + \frac{60}{100} + \frac{1}{10} + \frac{3}{100} \\ = 3000 + 1400 + 70+ 11+ \frac{7}{10} + \frac{3}{100} \\ = 3000+(1000+400) + 70+ (10+1) + \frac{70}{100} + \frac{3}{100} \\ 4481.73 = 4000+400+80+1+\frac{70}{100} \end{array}$ (iii) Subtract 37.85 from 193.6 $\begin{array}{r} 193.60 \\ - 37.85 \\ \hline 100 + 90 + 3+6 \quad 10+ 0 \quad 100 \end{array}$	Counters, bundle and loose straws base ten cut square, Bundle of sticks

	$37.85 - (30 + 7 + 85 \div 100)$ <hr/> $= 100 + 90 + 3 + \frac{60}{100} - 30 - 7 - \frac{85}{100}$ $= 100 + 90 - 30 + 3 - 7 + \frac{60}{100} - \frac{85}{100}$ $= 100 + 60 - 7 + 3 + \frac{60}{100} - \frac{85}{100}$ $= 100 + 53 + 2 + \frac{160}{100} - \frac{85}{100}$ $155.75 = 155 + 75$ <p><u>Assessment</u> Use the partitioning and place system to add the following</p> <ol style="list-style-type: none"> 1. 44362 and 53211 2. 54217 and 33521 3. 23888 and 46111 4. 634536 and 552124 5. 702702 and 282282 <p>Apply the expanding and place system to add the following</p> <ol style="list-style-type: none"> 1. 50342 + 643224 2. 48325 + 115037 3. 305306 + 420430 4. 511325 + 166341 5. 834256 + 221003 	
<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>	

Week Ending: 24-02-2023	DAY:	Subject: Mathematics
Duration: 60MINS		Strand: Number
Class: B8	Class Size:	Sub Strand: Multiplication & Division
Content Standard: B8.1.2.2 Apply the understanding of the Multiplication & Division to solve problems and round answers to given decimal places.		Indicator: B8.1.2.2.2 Multiply or divide multi-digit numbers by 2- and 3-digit numbers.
Performance Indicator: Learners can apply mental mathematics strategies and number properties to do calculation		Lesson: 2 of 2
Core Competencies: Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)		
References: Mathematics Curriculum Pg. 95		

Phase/Duration	Learners Activities	Resources																																													
PHASE 1: STARTER	<p>Revise with learners on the previous lesson.</p> <p>Share performance indicators with learners and introduce the lesson.</p>																																														
PHASE 2: NEW LEARNING	<p>Guide learners to use the area model (Expand and Box method) to multiply and divide efficiently.</p> <div style="text-align: center;"> $526 \times 54 =$ <table border="1" style="margin: auto;"> <tr> <td style="text-align: center;"><small>500</small></td> <td style="text-align: center;"><small>20</small></td> <td style="text-align: center;"><small>6</small></td> <td></td> </tr> <tr> <td style="text-align: center;">500×50</td> <td style="text-align: center;">20×50</td> <td style="text-align: center;">6×50</td> <td style="text-align: center; vertical-align: middle;">50</td> </tr> <tr> <td style="text-align: center;">$= 25000$</td> <td style="text-align: center;">$= 1000$</td> <td style="text-align: center;">$= 300$</td> <td></td> </tr> <tr> <td style="text-align: center;">500×4</td> <td style="text-align: center;">20×4</td> <td style="text-align: center;">6×4</td> <td style="text-align: center; vertical-align: middle;">4</td> </tr> <tr> <td style="text-align: center;">$= 2000$</td> <td style="text-align: center;">$= 80$</td> <td style="text-align: center;">$= 24$</td> <td></td> </tr> </table> $\therefore 526 \times 54 = 25,000 + 2,000 + 1,000 + 300 + 80 + 24$ $= 28,404$ </div> <p>Guide learners to multiply whole numbers using the vertical place value method: (i.e. $657 \times 27 =$)</p> $\begin{array}{r} 657 \\ \times 27 \\ \hline 4599 \\ + 1314 \\ \hline 17739 \end{array}$ <p>Guide learners to multiply whole numbers using the lattice method. That is to solve 382×856:</p> <p>Make a 3 by 3 lattice and set up the solution as follows:</p> <div style="text-align: center;"> <table style="border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">8</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">8</td> <td style="border: 1px solid black; padding: 5px;">3</td> <td style="border: 1px solid black; padding: 5px;">2</td> <td style="border: 1px solid black; padding: 5px;">6</td> <td style="border: 1px solid black; padding: 5px;">4</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="border: 1px solid black; padding: 5px;">2</td> <td style="border: 1px solid black; padding: 5px;">1</td> <td style="border: 1px solid black; padding: 5px;">5</td> <td style="border: 1px solid black; padding: 5px;">0</td> </tr> <tr> <td style="text-align: center;">6</td> <td style="border: 1px solid black; padding: 5px;">6</td> <td style="border: 1px solid black; padding: 5px;">1</td> <td style="border: 1px solid black; padding: 5px;">8</td> <td style="border: 1px solid black; padding: 5px;">8</td> </tr> </table> </div>	<small>500</small>	<small>20</small>	<small>6</small>		500×50	20×50	6×50	50	$= 25000$	$= 1000$	$= 300$		500×4	20×4	6×4	4	$= 2000$	$= 80$	$= 24$			3	8	2			1	1	1		8	3	2	6	4	5	2	1	5	0	6	6	1	8	8	<p>Counters, bundle and loose straws base ten cut square, Bundle of sticks</p>
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	<p>$382 \times 856 = 326,992$</p> <p>Guide learners to use the distributive property to multiply 325×15 $= 325 \times (10 + 5) = (325 \times 10) + (325 \times 5)$ $= 3,250 + 1,625$ $= 4,875$</p> <p>Guide learners to investigate and determine basic division facts including divisibility test</p> <p>Guide learners to determine how a given number is divisible by 3,4,5, 6, 7, 8,9,10, etc.</p> <p><u>Assessment</u> Multiply each of the following using the 'expand and box' method.</p> <ol style="list-style-type: none"> 1. 4211×342 2. 3882×217 3. 5034×223 4. 5478×155 5. 6431×144 <p>Solve the following using the vertical place value method</p> <ol style="list-style-type: none"> 1. 442×42 2. 468×56 3. 356×37 4. 403×43 5. 650×29 	
<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>	