## SECOND TERM WEEKLY LESSON NOTES WEEK I

Week Ending: 06-04-2023		DAY:		Subject: Mathematics	
Duration: 60MINS				Strand: Number	
Class: B8		Class Size:		Sub Strand: Fractions	
<b>Content Standar</b> B8.1.3.1 Apply the u on fractions to solv fractions of given qu results to given dec	operation lving and the ant places.	Indicator: B8.1.3.1.1 Re involving basi	eview fractions and solve problem ic operations on fractions	s I of I	
Performance Ind Learners can review basic operations on	olve problems involving Core Competencies: Communication and Collabora Thinking and Problem solving (		on (CC) Critical CP)		
References: Math	ematics Curric	ulum Pg. 102	2		
Phase/Duration	Learners Act	ivities			Resources
STARTER	Example: I ha transport. Ho Learners in p to share their Share perform	ve GH¢200 ow much wil airs discuss t r answers wi nance indica	, and I want to I I give to my the question a th the class. tors and intro	o give half of it to my son for son? and find the answer. Ask them oduce the lesson.	
LEARNING	Engage learner the fraction s Learners in the Write down fractions. So $\frac{2}{3} = \frac{4}{6}, \frac{6}{9}, \frac{1}{9}$ Demonstrate Find a common denominator	bundle and loose straws base ten cut square, Bundle of sticks			
	Have learner	s express the	e following fra	actions in its simplest form.	

	I. $\frac{6}{10}$ 4. $\frac{4}{12}$ 2. $\frac{12}{18}$ 5. $\frac{8}{14}$ 3. $\frac{16}{20}$ Guide learners to express fractions as a mixed number.Example $\frac{12}{5} = 2\frac{2}{5}$	
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.	

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<b>Content Standar</b> B8.1.3.1 Apply the u on fractions to solv fractions of given qu results to given dec	operation lving nd the ant places.	Indicator: B8.1.3.1.1 Re involving basi	view fractions and solve problems ic operations on fractions	Lesson:		
<b>Performance Indicator:</b> Learners can review fractions and solve problems involving basic operations on fractions				Core Competencies: Communication and Collaboration ( Thinking and Problem solving (CP)	CC) Critical	
References: Math	ematics Curric	ulum Pg. 102	2			
Phase/Duration PHASE 1:	Learners Acti Let learners de	ivities etermine the r	nissing number	r in the box	Resources	
STARTER	1 2   5 7   15 18   35 39	3 An 9 21 ?	nswer: 43	oduce the lesson		
PHASE 2: NEW	Review the ba	asic operatio	ons on fractio	ns.	Counters,	
LEARNING	Review the basic operations on fractions. Write an addition problem on the board $\frac{4}{13} + \frac{2}{13}$ Ask learners to observe the problems carefully. Guide them to note that they have the same denominator but different numerators. Learners in pairs solve the problem and present their answers to the class. When the fractions have the same denominator, we add the numerators and write the sum all over the same denominator Example: $\frac{4}{13} + \frac{2}{13} = \frac{4+2}{13} = \frac{6}{13}$ Write two more examples on the board and let learners work in pairs. I. $\frac{9}{15} + \frac{6}{15}$ 2. $\frac{4}{5} + \frac{3}{5}$					
	Write on the board. $\frac{3}{4} + \frac{1}{8}$ . Guide learners to add fractions with different denominators.					
	To subtract for common den need to find to lowest number	ractions with ominator, or he LCM of t er that is divi	n different den r a denominat he two numb isible by both	nominators we need to find a tor that is the same. First we pers in the denominators. The numbers is the LCM.		

	We must change the numerators and denominators before we can add					
	the fractions. The new denominator will be the LCM, 8. We will					
	rewrite each fraction as an equivalent fraction with denominator 8.					
	·					
	Solve the problem on the board: $- + - = - + - = - = - = - = - = - = - = $					
	Learners subtract the following fractions and simplify their answers.					
	$1. {5}$ $2. {7}$ $3. {4}$ $4. {4}$ $3. {4}$					
	Multiplying a whole number by a fraction, e.g. $5 \times \frac{2}{3}$ or finding five two-thirds					
	2 $2$ $2$ $2$ $2$ $10$ $2$ $3$ $3$ $3$ $3$ $3$ $3$ $3$					
	means $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{10}{3} = 3\frac{2}{3}$					
	To multiply a whole number by a mixed fraction (e.g. $3 \times 2^{\frac{2}{2}}$ ) one can multiply					
	To matching a whole number by a mixed matching (e.6. $3 \times 2_{3}$ ) one can matching $\frac{3}{3}$					
	the whole number by the whole number and then whole number by the					
	fraction and add the products or change the mixed fraction to improper					
	traction and multiply;					
	i.e. $3 \times 2\frac{2}{2} = (3 \times 2) + (3 \times \frac{2}{2})$					
	$=6+\frac{2}{2}+\frac{2}{2}+\frac{2}{2}=6\frac{6}{2}$					
	To multiply a whole number by a fraction					
	i o multiply a whole number by a fraction					
	$(e.g. 3 \times 2\frac{2}{3})$					
	first change all into common fractions, then multiply the numerators separately					
	and multiply the denominators separately and simplify;					
	ie $3 \times 2^{\frac{2}{2}} = \frac{3}{2} \times \frac{8}{2} = \frac{3X8}{2} = 3^{\frac{24}{2}} = 8$					
	Multiplying a function by a subala number the multiplication is interpreted as					
	Multiplying a fraction by a whole number the multiplication is interpreted as					
	"of"; e.g. $\frac{2}{3} \times 5$ means shade $\frac{2}{3}$ of 5;					
	i.e. finding two-thirds of each of five objects; i.e. $\frac{2}{3} \times 5$ can be illustrated by					
	$\frac{3}{2}$ of <b>F</b> shoots of paper which leads to the sheding of 10 thinds $\frac{2}{2}$ v <b>F</b> =					
	shading $\frac{-0}{3}$ is sheets of paper, which leads to the shading of 10 thirds, $\frac{-1}{3} \times 5 = 1$					
	$\frac{2}{2} of 5 = 10 \left(\frac{1}{2}\right) = \frac{10}{2} = 3 \frac{1}{2}$					
	5 5 5 5					
	To multiply a mixed fraction by a whole number (e.g. $4 - \frac{4}{5} \times 5$ )					
	First shange all into common fractions, then multiply the numerators					
	First change all into common fractions, then multiply the numerators					
	separately and multiply the denominators separately and simplify;					
	i.e. $4\frac{1}{5} \times 5 = \frac{24}{5} \times \frac{3}{1} = \frac{220}{5} = \frac{24}{1} = 24$					
PHASE 3:	Use peer discussion and effective questioning to find out from learners					
REFI ECTION	what they have learnt during the lesson					
	Tales for the difference because and some statistical					
	I ake teedback from learners and summarize the lesson.					