FIRST TERM WEEKLY LESSON NOTES WEEK 8

Week Ending: 24-11-2023		DAY:		Subject: Mathematics		
Duration: 100MINS				Strand: Number		
Class: B9		Class Size:		Sub Strand: Fractions, Decimals and Percentages		
Content Standard: B9.1.3.1 Apply the understanding of fractions to solve problems involving quantities and round the results to g significant places		operations on fractions of given iven decimal and iven the fractions of given iven decimal and		: Review fractions and solve involving basic operations ons	/e Lesson:	
Performance Ind Learners can solve fractions.	icator: e problems inv	olving basic operations on Core Competencies: Communication and Coll Critical Thinking and Pro		ooration (CC) em solving (CP)		
References: Mathematics Curriculum Pg. 170						
New words: Fract	tions, Equivaler	nt fractions, Simplest	form, Mix	ed number		
		• •,•				
Phase/Duration	Learners Act	IVITIES		aaant laannanaith a	Kesources	
STARTER	Afterward, ha	n involving fractions ave them share their mance indicators and	solutions and ask th	em to solve it and thought processes.		
PHASE 2: NEW	Conduct a brief review of the concept of fractions, ensuring learners Fraction					
LEARNING	understand th Use fraction representation Provide learn into squares. Ask them to without visual Introduce the Have learners	ne terminology and b manipulatives to dem on. ers with a visual rep shade a specific fract l aids. e concept of equivale s practice writing fra	pasic princi nonstrate f resentation tion of the ent fraction ctions as e	ples. ractional parts and their n of a rectangle divided squares, both with and s. quivalent fractions with	manipulatives	
	different num Example: Let's take the fr the numerator of Multiply by 2: (1 Multiply by 3: (1 Multiply by 4: (1)	perators and denomination 1/2 and create and denominator by the $1/2$ (2/2) = 2/4 $1/2$) * (2/2) = 3/6 $1/2$) * (4/4) = 4/8	nators. n equivalent same numbe	fraction by multiplying both er.		

Discuss expressing fractions in their simplest form. Provide examples and ask learners to simplify fractions by finding the greatest common factor. Example 1: Simplify 4/8.	
Find the GCF of 4 and 8, which is 4. Divide both the numerator and denominator by 4: $(4/4) / (8/4) = 1/2$. So, 4/8 simplified to its simplest form is 1/2.	
Example 2: Simplify 15/20.	
Find the prime factorization of both 15 and 20:	
15 = 3 * 5 20 = 2 * 2 * 5 Identify the common prime factor, which is 5.	
Divide both the numerator and denominator by 5: $(15/5) / (20/5) = 3/4$.	
So, 15/20 simplified to its simplest form is 3/4.	
Explain the concepts of mixed numbers and improper fractions. Show how to convert between the two forms and practice with examples. Example 1: 5/3	
In the fraction 5/3, the numerator (5) is greater than the denominator (3). This means you have 5 equal parts of a whole divided into 3 equal parts each. It can be represented as a mixed number: 1 2/3, where 1 is the whole part, and 2/3 represents the remaining portion.	
Example 2: 2 $\frac{1}{4}$	
In the mixed number $2\frac{1}{4}$, "2" is the whole number, and "1/4" is the proper fraction. This means you have 2 whole parts and an additional 1/4 part of a whole.	
Example 3: Convert $\frac{7}{2}$ to a Mixed Number	
7 divided by 2 equals 3 with a remainder of 1. So, 7/2 is equal to 3 1/2.	
Example 4: Convert 4 $\frac{3}{5}$ to an Improper Fraction	
First, multiply the whole number (4) by the denominator (5): $4 * 5 = 20$. Then, add the numerator (3) to the result: $20 + 3 = 23$. So, 4 3/5 is equal to the improper fraction 23/5.	
Distribute a worksheet with fraction problems that involve addition, subtraction, multiplication, or division of fractions.	

	Encourage learners to solve the problems individually and discuss their approaches.	
	 <u>Assessment</u> 1. Convert the fraction 7/4 into a mixed number. 2. Solve the following problem: If you have 3/5 of a pizza, and your friend has 1/4 of the same pizza, how much pizza do you have together? 	
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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Performance Ind Learners can revie problems involvin division of fraction	icator: ew the basic op g addition, sub [;] ns.	perations on fractions and solve traction, multiplication, and Comm Critica		Core Competencies: Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)			
References: Math	ematics Curric	ulum Pg. 170					
New words: Fract	tions, Addition	, Subtraction, Multip	lication, D	ivisi	ion		
Phase/Duration	Loonoro A -+	ivition .				Pasauraa	
Phase/Duration	Learners Act	IVITIES "Fraction Biddle" act	ivity Pros	ont	learners with a riddle	Resources	
STARTER	that involves	fractions.	ivity. These	ent	learners with a riddle		
PHASE 2: NEW	Encourage them to work in pairs or small groups to solve the riddle. Share performance indicators and introduce the lesson.						
LEARNING	addition, subtraction, multiplication, and division.						
	Use fraction aids.	manipulatives to den	nonstrate	the	operations with visual		
	Provide examples of addition and subtraction of fractions. Ask learners to work out answers to problems involving these operations. Example 1: Add 1/3 + 1/4						
	Step 1: Find a common denominator, which in this case is 12 because both 3 and 4 can be evenly divided by 12.						
	1/3 = 4/12 (mi 1/4 = 3/12 (mi	ıltiply both numerator ar ıltiply both numerator ar	nd denomina nd denomina	ator ator	by 4) by 3)		
	Step 2: Now th numerators: 4/12 + 3/12 = So, 1/3 + 1/4 =	nat the fractions have a 7/12 : 7/12.	common dei	nom	inator, add the		
	Example 2: Su	ubtract 5/6 - 1/3					

	Stop 1: Find a common dependent or which is 6 because both fractions already
	step 1. Find a common denomination, which is o because boar fractions already
	nave denominators of 6.
	Step 2: Subtract the numerators:
	5/6 - 1/3 = (5 - 2)/6 = 3/6
	Step 3. Simplify the result by dividing both the numerator and denominator by
	their stratest common factor (CE) which is 2 in this case:
	areal greatest common factor (GCr), which is 5 in this case.
	3/6 - 3/3 = 1/2
	$S_0, S_0/6 - 1/3 = 1/2.$
	Explain the concepts of multiplication and division of fractions.
	Provide examples and encourage learners to work out answers to
	revelue champios and checking champions to work out answers to
	problems involving these operations.
	Example 1: Multiply 2/3 by 3/5
	Numerator: $2 * 3 = 6$
	Denominator: $3 * 5 = 15$
	So, 2/3 * 3/5 = 6/15.
	Example 2: Divide 2/3 by 4/5
	Dividing by $4/5$ is the same as multiplying by $5/4$ (the reciprocal of $4/5$)
	Now we can multiply the fractioner
	Now, we can mulaply the fractions.
	Number $2/2 \times 5/4 = (2 \times 5)/(2 \times 4) = 10/12$
	Numerator: $2/3 + 3/4 - (2 + 3)/(3 + 4) - 10/12$
	Distribute a worksheet with fraction problems that involve addition,
	subtraction, multiplication, and division.
	Encourage learners to solve the problems individually or in pairs.
	discussing their approaches
	Accessment
	I. Add the fractions 3/4 and 1/5.
	2. Subtract the fractions 2/3 and 1/6.
	3. Multiply the fractions 1/2 and 2/3.
	4. Divide the fractions 5/6 and 1/4.
PHASE 3.	Use peer discussion and effective questioning to find out from
DEELECTION	loarners what they have loarnt during the lossen
REFLECTION	ical lices what they have learne during the lesson.
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