EaD Comprehensive Lesson Plans



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BASIC 8

WEEKLY LESSON PLAN – WEEK 5

Strand:	Number	S	Sub-Stra	Strand: Number and Numeration Systems						
Content Standard:	B8.1.1.2 Apply the concepts and vocabulary of sets on sets of factors of numbers to identify perfect squares, determine their square root and solve real life problems involving union and intersection of two sets									
Indicator (s)	identify perfect square roots. Use the and sets of factors problems B8.1.1.2.2. Use the sets of factors of notes.	Performance Indicator: Learners can solve word problems involving union and intersection. Performance Indicator: Learners can solve word problems involving union and intersection. Performance Indicator: Learners can solve word problems involving union and intersection.							vord	
Week Ending	11-10-2024									
Class	B.S.8	Class Size:			Dura	tion:				
Subject	Mathematics									
Reference	Mathematics Curri	culum, teachers R	esource	Pack, Lear	ners R	esource Pa	ck, Text	tbook.	•	
Teaching / Learning Resources	Poster, Pictures, W	Competencies: under conce or situ				nderstan oncept a situation bility to at adequ	cy to select alternative(s) dequately meet selected			
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MA	IN					HASI EFLI	E 3: ECTIO)N
MONDAY		numbers a among th 2. Learners I numbers. 3. Learners i of identify squares fr What are Perfect A perfect number the sum of its fact other words, perfect positive integers the smallest perfect in the sum of its smallest perfect in the smallest perfect in the sum of its smallest perfect in the smallest perfect perfect in the smallest perfect perfect in the smallest perfect perfect perfect perfect perfect perfect perfect perfect perfect p	Assist Learners to list sets of multiples of numbers and identify a set of perfect numbers among them. Learners brainstorm to identify perfect square numbers from the list of set of multiples of numbers. Learners in small groups to solve more examples of identifying perfect numbers and perfect squares from a set of multiples. Learners in small groups to solve more examples of identifying perfect numbers and perfect squares from a set of multiples. Learners in small groups to solve more examples of identifying perfect numbers and perfect squares from a set of multiples. Learners in small groups to solve more examples of identifying perfect numbers and perfect squares from a set of multiples. Learners in small groups to solve more examples of identifying perfect numbers and perfect numbers. Learners in small groups to solve more examples of identifying perfect numbers and perfect numbers. Learners to identify perfect square in state of identifies and perfect numbers are the integers that are the sum of its divisors. The perfect number is 6, which is the sum of its 1, 2, and 3. It is to be noted that this sum does				ar le Ex	hrough questions and nswers, conclude the esson. xercise; 1. What are Perfect numbers? 2. Define Perfect squares. 3. Select the Perfect numbers from the following numbers; i. 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55		
		not include the nu								12, 16, 18

		itself.	iii. 4, 8, 12, 16, 20, 2	
		Perfect Number	Sum of Divisors	10, 20, 2
		6	1+2+3	
		28	1 + 2 + 4 + 7 + 14	
		496	1 + 2 + 4 + 8 + 16 + 31 + 62 + 124 + 248	
		8128	1 + 2 + 4 + 8 + 16 + 32 + 64 + 127 + 254 + 508 + 1016 + 2032 + 4064	
		Important Notes		
		• Perfec	t numbers are the positive integers	
		which		
		• The sn		
		• All the		
		It is sti		
		numbe		
		• All the		
		altern		
		81, 100, 121, 144 math. Try to memo	t squares are: {1, 4, 9, 25, 36, 49, 64,} Perfect squares are used often in orize these familiar numbers so that them as they are used in many math	
WEDNESDAY	Discuss the meaning of square roots with the Learners.	numbers. 2. Assist Lear of number 3. Learners in	rners to calculate for the square root of s. Individually brainstorm to calculate for e roots of perfect numbers.	Reflect on how to calculate for the square root of numbers. Exercise; 1. Write the square of the following digits;

Square Root of 144

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	CU	en		
	THE	MATH	I KIND	8.81

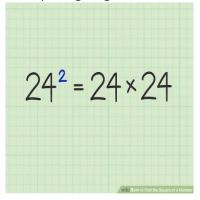
2	144	
2	72	$144 = \underbrace{2 \times 2}_{} \times \underbrace{2 \times 2}_{} \times \underbrace{3 \times 3}_{}$
2	36	= (2 × 2) × (2 × 2) × (3 × 3)
2	18	= 2° × 2° × 3° = (2 × 2 × 3)°
3	9	= (12)2
3	3	$144 = (12)^2$
	1	
		$\sqrt{144} = 12$

Finding the square of numbers;

o Squaring a Single Digit Number

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6		12	15	18	21	24	27
4				16					
5	5			20			_		
6	6			24				and the same of	
7	7			28		THE REAL PROPERTY.			
8	8			32					
9	9	18	27	36	45	54 wild	63	72	81

Squaring Larger Numbers.



Squaring Fractions

$$\left(\frac{8}{2}\right)^2 = \frac{64}{8 \times 8} = 64$$

$$8 \times 8 = 64$$
Will live to find the Source of a book of the final state of the source of a book of the final state of the final s

- i. 3
- ii. 5
- iii. 2
- iv. 9
- v. 1
- 2. Find the square root of the following numbers;
- i. 49
- ii. 25
- iii. 9
- iv. 16
- v. 64

FRIDAY	Show Learners	1. Learners brainstorm to explain the m	Through questions and			
	a Poster	Factors of numbers.				
	displaying the 2. Assist Learners to write the set of Factors of numbers.					
	numbers.	3. Discuss and solve with Learners story	Exercise;			
	 involving unions and intersection of sets. 4. Learners in small groups to represent word or story problem involving union and intersection o a Venn diagram 					
		Factors of Numbers; 15 { 1, 3, 5 and 15} 12 { 1, 2, 3, 4, 6 and 12} 4{ 1, 2 and 4.}		ii. 24 iii. 18 iv. 12 v. 9		
		FACTOR SET		Assignment;		
		 The set of factors for a given number. -Example: List all the positive pairs of factors of 48. {1, 2, 3, 4, 6, 8, 12, 16, 24, 48} 		There are 80 farmers in a certain village who grow maize and rice or both. Out of the 80 farmers, 50 grow maize and 60 grow rice. (a) represent the information on a Venn		
		Venn Diagram Tomato Red flesh Mushy Savory Fruit Round Smooth-skinned Sweet White flesh Firm Sweet	ale .	diagrams (b) if X of them grow both crops, write an equation in X and solve		

Name of Teacher: School: District: