Week	Lesson	Strand	Sub-Strand	Specific Learning Outcomes	Learning/ Teaching Experiences	Key Inquiry Questions	Learning Resources	Assessment Methods	Ref
1	1	**NUMBERS**	Whole Numbers Place value	By the end of the lesson, the learner should be able to: a) Identify the place value of different digits on a place value chart b) Use a place value chart to show the place value of different digits c) Appreciate the place value chart in showing the place value of whole numbers	Learners are guided in pairs, in groups or individually to: Identify the place value of different digits on a place value chart Use a place value chart to show the place value of different digits Use the abacus to show the place value of digit 2 in the number Work out practice exercise 1	What is the place value of digit 1 in each number?	Place value apparatus Number charts Number cards Multiplication tables **References** *Mentor Mathematics Learner's Book Grade 7 pg. 1-3*	Class activities Class written tests Out of school/ home assignments or activities	
	2	**NUMBERS**	Whole Numbers Total value	By the end of the lesson, the learner should be able to: a) Identify the total value of various digits b) Make number cards and use them to identifying the total value of digits in a place value chart c) Appreciate the use of number cards to identify the total value of digits on a place value chart	Learners are guided in pairs, in groups or individually to: Identify the total value of various digits Make number cards and use them to identifying the total value of digits in a place value chart Use the abacus to find the total value of digit 7 in the number Work out practise exercise 2	What is the total value of each digit in the numbers 35708462?	Place value apparatus Number charts Number cards Multiplication tables **References** **Mentor Mathematics Learner's Book Grade 7 pg. 3-5**	Class activities Class written tests Out of school/ home assignments or activities	
	3	**NUMBERS**	Whole Numbers Reading and writing numbers in symbols	By the end of the lesson, the learner should be able to: a) Read numbers in symbols b) Write numbers in symbols c) Apply operations of whole numbers in real life situations	Learners are guided in pairs, in groups or individually to: Read numbers in symbols Write numbers in symbols Work out practice exercise 3	Can you give examples of numbers in symbols?	Place value apparatus Number charts **References** **Mentor Mathematics Learner's Book Grade 7 pg. 5-6**	Class activities Class written tests Out of school/ home assignments or activities	
	4	**NUMBERS**	Whole Numbers Reading and writing numbers in	By the end of the lesson, the learner should be able to: a) Read and write numbers in symbols b) Practice writing dummy cheques for different sums of	Learners are guided in pairs, in groups or individually to: Read and write numbers in symbols Practice writing dummy cheques for different sums of	What are the features of a cheque?	Place value apparatus Number charts Number cards **References**	Class activities Class written tests Out of school/ home	

				By the end of the lesson, the learner should be able to:					
			words	c) Apply operations of whole numbers in real life situations	money Write the amount of money spent in words Work out practice exercise 4		*Mentor Mathematics Learner's Book Grade 7 pg. 6-8*	assignments or activities	
	5	*NUMBERS*	Whole Numbers Rounding off numbers up to the nearest millions	By the end of the lesson, the learner should be able to: a) Identify the place value of different numbers in millions b) Round off numbers up to the nearest millions c) Enjoy using a place value chart to round off numbers up to the nearest millions	Learners are guided in pairs, in groups or individually to: Identify the place value of different numbers in millions Round off numbers up to the nearest hundreds of thousands Round off numbers up to the nearest millions Work out practice exercise 5	Can you round off 876 943 to the nearest hundreds of thousands?	Place value apparatus Number charts Number cards **References** *Mentor Mathematics Learner's Book Grade 7 pg. 9-10*	Class activities Class written tests Out of school/ home assignments or activities	
2	1	*NUMBERS*	Whole Numbers Rounding off numbers up to the nearest hundreds of millions	By the end of the lesson, the learner should be able to: a) Round off numbers up to the nearest hundreds of millions b) Prepare and use place value charts to round off numbers up to the nearest hundreds of millions c) Apply operations of whole numbers in real life situations	Learners are guided in pairs, in groups or individually to: Round off numbers up to the nearest hundreds of millions Prepare and use place value charts to round off numbers up to the nearest hundreds of millions Work out practise exercise 6	The digit in which place value do we consider when rounding off numbers to the nearest ten thousand hundreds of millions?	Place value apparatus Number charts s Multiplication tables **References** *Mentor Mathematics Learner's Book Grade 7 pg. 10-12*	Class activities Class written tests Out of school/ home assignments or activities	
	2	*NUMBERS*	Whole Numbers Natural numbers Odd and even numbers	By the end of the lesson, the learner should be able to: a) Count and write the number of items using natural numbers b) Make number cards and use them to classify natural numbers as even and odd numbers c) Appreciate use of natural numbers in real life situation	Learners are guided in pairs, in groups or individually to: Count and write the number of items in the classroom using natural numbers Arrange the number of items counted from the largest to the smallest Make number cards and use them to classify natural numbers as even and odd numbers Work out practice exercise 7	Which numbers are divisible by 2 without a remainder?	Place value apparatus Number charts Number cards Multiplication tables **References** *Mentor Mathematics Learner's Book Grade 7 pg. 12-13*	Class activities Class written tests Out of school/ home assignments or activities	
	3	*NUMBERS*	Whole Numbers	By the end of the lesson, the learner should be able to:	Learners are guided in pairs, in groups or individually to:	Which numbers have	Place value apparatus	Class activities	

			Prime numbers	a) Write down numbers 1 to 100 on a chart b) Use the chart to classify natural numbers as prime numbers in the chart c) Enjoy sharing their work with other groups	Write down numbers 1 to 100 on a chart Use the chart to classify natural numbers as prime numbers in the chart Work out practise exercise 8	exactly two factors?	Number charts Number cards **References** *Mentor Mathematics Learner's Book Grade 7 pg. 14-15*	Class written tests Out of school/ home assignments or activities	
	4	*NUMBERS*	Whole Numbers Operations on whole numbers Combined operations (1)	By the end of the lesson, the learner should be able to: a) Explain how to perform a combined operation involving addition and subtraction of different numbers b) Perform combined operations involving addition and subtraction in the correct order c) Apply operations of whole numbers in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to perform a combined operation involving addition and subtraction of different numbers Perform combined operations involving addition and subtraction in the correct order Work out practice exercise 9	Can you find the solution to 326-540+431?	Place value apparatus Number charts Number cards Multiplication tables **References** *Mentor Mathematics Learner's Book Grade 7 pg. 16-17*	Class activities Class written tests Out of school/ home assignments or activities	
	5	*NUMBERS*	Whole Numbers Operations on whole numbers Combined operations (2)	By the end of the lesson, the learner should be able to: a) Explain how to perform a combined operation involving division and multiplication of different numbers b) Perform combined operations involving division and multiplication in the correct order c) Apply operations of whole numbers in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to perform a combined operation involving division and multiplication of different numbers Perform combined operations involving division and multiplication in the correct order Work out practice exercise 10	What is the solution to 16÷8×156?	Place value apparatus Number charts Number cards Multiplication tables **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 17-18*	Class activities Class written tests Out of school/ home assignments or activities	
3	1	*NUMBERS*	Whole Numbers Operations on whole numbers Combined operations (3)	By the end of the lesson, the learner should be able to: a) Explain how to perform a combined operation involving division, multiplication, addition and subtraction of different numbers b) Perform combined operation involving division, multiplication, addition and	Learners are guided in pairs, in groups or individually to: Explain how to perform a combined operation involving division, multiplication, addition and subtraction of different numbers Copy and fill in the puzzle and use a calculator to confirm the answers	What is the answer to 528-84÷7×9+10?	Place value apparatus Number charts Number cards Multiplication tables **References** *Mentor Mathematics*	Class activities Class written tests Out of school/ home assignments or activities	

				subtraction in the correct order c) Apply operations of whole numbers in real life situations	Perform combined operation involving division, multiplication, addition and subtraction in the correct order Work out practise exercise 11		*Learner's Book Grade 7 pg. 19-20*		
	2	*NUMBERS*	Whole Numbers Number sequence	By the end of the lesson, the learner should be able to: a) Identify the number patterns to work out number sequences b) Work out number sequence of different number patterns c) Appreciate use of whole numbers in real life situations	Learners are guided in pairs, in groups or individually to: Identify the number patterns to work out number sequences Work out number sequence of different number patterns Work out practice exercise 12	What is a number sequence? Can you give examples?	Number charts Multiplication Tables **References** *Mentor Mathematics Learner's Book Grade 7 pg. 21-22*	Class activities Class written tests Out of school/ home assignments or activities	
	3	*NUMBERS*	Whole Numbers Creating number sequence	By the end of the lesson, the learner should be able to: a) Create number sequence for playing number games b) Use digital devices to play games involving place value c) Appreciate use of whole numbers in real life situations	Learners are guided in pairs, in groups or individually to: Create number sequence for playing number games Use digital devices to play games involving place value Work out practice exercise 13	Can you create 5 patterns that involve multiplication?	Place value apparatus Number charts Multiplication Tables **REFERENCES** *Mentor Mathematics Learner's Book Grade 7 pg. 22-23*	Class activities Class written tests Out of school/ home assignments or activities	
	4	*NUMBERS*	Factors Divisibility test rules	By the end of the lesson, the learner should be able to: a) Determine divisibility of numbers using flash cards b) Test divisibility of numbers by 2, 3, 4, 5, 6, 8, 9,10 and 11 in different situations c) Reflect on use of factors in real life situations	Learners are guided in pairs, in groups or individually to: Determine divisibility of numbers using flash cards Test divisibility of numbers by 2, 3, 4, 5, 6, 8, 9,10 and 11 in different situations Create a song or poem on divisibility test of numbers	Where do we use factors in day-to-day activities? Which numbers are divisible by 2 and 10?	Multiplication Tables **REFERENCES** *Mentor Mathematics Learner's Book Grade 7 pg. 24-26*	Class activities Class written tests Out of school/ home assignments or activities	
	5	*NUMBERS*	Factors Composite numbers	By the end of the lesson, the learner should be able to: a) Express composite numbers as a product of prime factors in different situations b) Write factors of composite numbers by factorization, factor tree, factor rainbow in charts, colour charts or cards	Learners are guided in pairs, in groups or individually to: Express composite numbers as a product of prime factors in different situations Write factors of composite numbers by factorization, factor tree, factor rainbow in charts, colour charts or cards	What is a composite number? Can you give examples?	Multiplication Tables **REFERENCES** **Mentor Mathematics Learner's Book Grade 7 pg. 27-28**	Class activities Class written tests Out of school/ home assignments or activities	

				Learning Outcomes	Learning Experiences	Key Inquiry Question	Learning Resources	Assessment	
				using locally available materials c) Reflect on use of factors in real life situations	using locally available materials				
4	1	*NUMBERS*	Factors Greatest Common Divisor (GCD)	By the end of the lesson, the learner should be able to: a) Work out the Greatest Common Divisor (GCD) of numbers by factor method in different situation b) Use factors to determine the GCD using number cards c) Apply the Greatest Common Divisor (GCD) in real life situations	Learners are guided in pairs, in groups or individually to: Work out the Greatest Common Divisor (GCD) of numbers by factor method in different situation Use factors to determine the GCD using number cards Work out practice exercise 3	How do we use factors in day-to-day activities? What is the GCD of 12 and 16?	Multiplication Tables **REFERENCES** *Mentor Mathematics Learner's Book Grade 7 pg. 28-29*	Class activities Class written tests Out of school/ home assignments or activities	
	2	*NUMBERS*	Factors Least Common Divisor (LCM)	By the end of the lesson, the learner should be able to: a) Work out the Least Common Multiples (LCM) of numbers by factor method in different situation b) Use factors to determine the LCM using number cards c) Apply the Least Common Multiples (LCM) in real life situations	Learners are guided in pairs, in groups or individually to: Work out the Least Common Multiples (LCM) of numbers by factor method in different situation Use factors to determine the LCM using number cards Work out practice exercise 4	What is the LCM of 8 and 20?	Mentor Mathematics Learner's Book Grade 7 pg. 30 Multiplication tables	Class activities Class written tests Out of school/ home assignments or activities	
	3	*NUMBERS*	Factors Application of Greatest Common Divisor (GCD) and Least Common Divisor (LCM)	By the end of the lesson, the learner should be able to: a) Work out application questions and solve problems relating to the GCD and the LCM in real life situations. b) Determine the GCD and LCM of numbers using IT to perform exercises on factors such as games c) Reflect on use of factors in real life situations	Learners are guided in pairs, in groups or individually to: Work out application questions and solve problems relating to the GCD and the LCM in real life situations. Determine the GCD and LCM of numbers using IT to perform exercises on factors such as games Work out practice exercise 5	How do we apply the GCD and the LCM in day-to-day activities?	Multiplication Tables **REFERENCE** **Mentor Mathematics Learner's Book Grade 7 pg. 31-32**	Class activities Class written tests Out of school/ home assignments or activities	
	4	*NUMBERS*	Fractions Comparing	By the end of the lesson, the learner should be able to: a) Discuss and arrange fractions in increasing and decreasing	Learners are guided in pairs, in groups or individually to: Discuss and arrange fractions in increasing and decreasing	How do we use fractions in daily activities?	Multiplication Tables **REFERENCE** *Mentor*	Class activities Class written tests	

				order using different strategies b) Compare fractions in different situations c) Recognize use of fractions in real life situations	order using different strategies Compare fractions in different situations Work out practice exercise 1		*Mathematics Learner's Book Grade 7 pg. 33-34*	Out of school/ home assignments or activities	
	5	*NUMBERS*	Fractions Addition of fractions	By the end of the lesson, the learner should be able to: a) Explain how to add fractions in practice cards b) Add fractions in different situations c) Appreciate the use of fractions in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to add fractions in practice cards Add fractions in different situations Work out practice exercise 2	What is the sum of 1/6 + 2/7?	Multiplication Tables **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 34-36*	Class activities Class written tests Out of school/ home assignments or activities	
5	1	*NUMBERS*	Fractions Subtraction of fractions	By the end of the lesson, the learner should be able to: a) Explain how to subtract fractions in practice cards b) Subtract fractions in different situations c) Appreciate the use of fractions in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to subtract fractions in practice cards Subtract fractions in different situations Work out practice exercise 3	What is the difference of 1/4 -3/16?	Multiplication Tables **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 36-38*	Class activities Class written tests Out of school/ home assignments or activities	
	2	*NUMBERS*	Fractions Multiplication of fractions by a whole number	By the end of the lesson, the learner should be able to: a) Make circular cut outs and use them to multiply fractions by whole numbers b) Multiply fractions by a whole number in real life situations c) Appreciate the use of fractions in real life situations	Learners are guided in pairs, in groups or individually to: Make circular cut outs and use them to multiply fractions by whole numbers Multiply fractions by a whole number in real life situations Work out practice exercise 4	What is the product of 3/8 ×7?	Multiplication Tables **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 38-40*	Class activities Class written tests Out of school/ home assignments or activities	
	3	*NUMBERS*	Fractions Multiplication of a fraction by a fraction	By the end of the lesson, the learner should be able to: a) Explain how to multiply fractions by fractions using rectangular grids b) Multiply fractions by a fraction in real life situations c) Apply fractions in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to multiply fractions by fractions using in grids Multiply fractions by a fraction in real life situations Work out practice exercise 5	What is the solution to 1/10 × 4/9?	Multiplication Tables **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 40-41*	Class activities Class written tests Out of school/ home assignments or activities	
	4	*NUMBERS*	Fractions	By the end of the lesson, the learner should be able to: a) Explain how to multiply a	Learners are guided in pairs, in groups or individually to: Explain how to multiply a	What is the product of 1/12 and	Multiplication Tables **REFERENCE**	Class activities Class written	

			Multiplication of a fraction by a mixed number	fraction by a mixed number using practice cards b) Multiply fractions by a mixed number in real life situations c) Apply multiplication fractions in real life situations	fraction by a mixed number using practice cards Multiply fractions by a mixed number in real life situations Work out practice exercise 6	4,1/16?	*Mentor Mathematics Learner's Book Grade 7 pg. 41-42*	tests Out of school/ home assignments or activities	
	5	*NUMBERS*	Fractions Reciprocals	By the end of the lesson, the learner should be able to: a) Use flip cards to match fractions and discuss reciprocals b) Find the reciprocals of fractions in different situations c) Enjoy finding the reciprocal of fractions	Learners are guided in pairs, in groups or individually to: Use flip cards to match fractions and discuss reciprocals Find the reciprocals of fractions in different situations Work out practice exercise 7	What is the reciprocal of 2/3?	Mentor Multiplication Tables **REFERENCE** Mathematics Learner's Book Grade 7 pg. 42-43	Class activities Class written tests Out of school/ home assignments or activities	
6	1	*NUMBERS*	Fractions Division of a fraction by a whole number	By the end of the lesson, the learner should be able to: a) Draw a rectangular grid and explain how to use it to divide fractions by whole numbers b) Divide fractions by a whole number in real life situations c) Appreciate the use of fractions in real life situations	Learners are guided in pairs, in groups or individually to: Draw a rectangular grid and explain how to use it to divide fractions by whole numbers Divide fractions by a whole number in real life situations Work out practice exercise 8	What is 2/3÷5?	Mentor Mathematics Learner's Book Grade 7 pg. 44-45 Multiplication Tables **REFERENCE**	Class activities Class written tests Out of school/ home assignments or activities	
	2	*NUMBERS*	Fractions Division of a fraction by a fraction	By the end of the lesson, the learner should be able to: a) Explain how to divide fractions by fractions using practice cards b) Divide fractions by fractions in real life situations c) Apply fractions in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to divide fractions by fractions using practice cards Divide fractions by fractions in real life situations Work out practice exercise 9	What is 2/15 divided by 2/5?	Mentor Mathematics Learner's Book Grade 7 pg. 45-46 Multiplication Tables **REFERENCE**	Class activities Class written tests Out of school/ home assignments or activities	
	3	*NUMBERS*	Fractions Division of a fraction by a mixed	By the end of the lesson, the learner should be able to: a) Explain how to divide a fraction by a mixed fraction using number cards b) Divide fractions by mixed	Learners are guided in pairs, in groups or individually to: Explain how to divide a fraction by a mixed fraction using number cards Divide fractions by mixed	What is 7/8 by 6¼?	Mentor Mathematics Learner's Book Grade 7 pg. 46-47	Class activities Class written tests Out of school/ home	

				By the end of the lesson, the learner should be able to:			Multiplication Tables **REFERENCE**	assignments or activities	
			fraction	fractions in real life situations c) Apply division fractions in real life situations	fractions in real life situations Work out practice exercise 10				
	4	*NUMBERS*	Fractions Division of a whole number by a fraction	By the end of the lesson, the learner should be able to: a) Explain how to divide a whole number by a fraction b) Divide whole numbers by fractions in real life situations c) Appreciate division of fractions	Learners are guided in pairs, in groups or individually to: Explain how to divide a whole number by a fraction Divide whole numbers by fractions in real life situations Work out practice exercise 11	Mathematics lessons take 2/3 hours. How many lessons are there in 12 hours?	Mentor Mathematics Learner's Book Grade 7 pg. 47-48 Multiplication Tables **REFERENCE**	Class activities Class written tests Out of school/ home assignments or activities	
	5	*NUMBERS*	Fractions Number sequence involving fractions	By the end of the lesson, the learner should be able to: a) Identify number sequence involving fractions in different situations b) Find the next fractions in different number sequences c) Recognize use of fractions in real life situations	Learners are guided in pairs, in groups or individually to: Identify number sequence involving fractions in different situations Find the next fractions in different number sequences Work out practise exercise 12	What is 1¼ converted to improper fractions?	Mentor Mathematics Learner's Book Grade 7 pg. 49-50 Multiplication tables **REFERENCE**	Class activities Class written tests Out of school/ home assignments or activities	
7				**MIDTERM BREAK**	**MIDTERM BREAK**	**MIDTERM BREAK**			
8	1	*NUMBERS*	Fractions Creating number sequence involving fractions	By the end of the lesson, the learner should be able to: a) Identify the rule in various number sequences b) Create number sequence involving fractions for playing number games using digital devices c) Apply fractions in real life situations	Learners are guided in pairs, in groups or individually to: Identify the rule in various number sequences Create number sequence involving fractions for playing number games using digital devices Work out practice exercise 13	Where do we use fractions in daily activities?	Multiplication tables Digital devices **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 50-51*	Class activities Class written tests Out of school/ home assignments or activities	
	2	*NUMBERS*	Decimals Place value of	By the end of the lesson, the learner should be able to: a) Identify the place value of digits in decimals numbers	Learners are guided in pairs, in groups or individually to: Identify the place value of digits in decimals numbers	Where are decimals applicable in real life?	Equivalent fraction board Circular and rectangular cut outs	Class activities Class written tests	

			decimals	b) Find the place value of digits in decimal numbers using place value charts c) Recognize use of decimals in real life situations	Find the place value of digits in decimal numbers using place value charts Work out practise exercise 1		Counters **REFERENCE Mentor Mathematics Learner's Book Grade 7 pg. 52-54**	Out of school/ home assignments or activities	
	3	*NUMBERS*	Decimals Total value of decimals	By the end of the lesson, the learner should be able to: a) Identify the total value of digits in decimal numbers b) Find the total value of digits in decimal numbers using number cards c) Appreciate the use of decimals in real life situations	Learners are guided in pairs, in groups or individually to: Identify the total value of digits in decimal numbers Find the total value of digits in decimal numbers using number cards Work out practice exercise 2	What is the total value of 5 in the number 0.6251?	Equivalent fraction board Circular and rectangular cut outs Counters **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 54-55*	Class activities Class written tests Out of school/ home assignments or activities	
	4	*NUMBERS*	Decimals Multiplication of decimals by a whole number	By the end of the lesson, the learner should be able to: a) Discuss how to multiply decimals by whole numbers b) Multiply decimals by whole numbers using multiplication charts c) Recognize use of decimals in real life situations.	Learners are guided in pairs, in groups or individually to: Discuss how to multiply decimals by whole numbers Multiply decimals by whole numbers using multiplication charts Work out practice exercise 3	What is the solution to 0.8×2?	Equivalent fraction board Circular and rectangular cut outs **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 55-57*	Class activities Class written tests Out of school/ home assignments or activities	
	5	*NUMBERS*	Decimals Multiplication of a decimal by a decimal	By the end of the lesson, the learner should be able to: a) Explain how to multiply a decimal by a decimal b) Multiply decimals by decimals using square grids c) Recognize use of decimals in real life situations.	Learners are guided in pairs, in groups or individually to: Explain how to multiply a decimal by a decimal Multiply decimals by decimals using square grids Work out practice exercise 4	What is the area of a square field whose one side measures 31.62 metres?	Equivalent fraction board Circular and rectangular cut outs **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 57-58*	Class activities Class written tests Out of school/ home assignments or activities	
9	1	*NUMBERS*	Decimals Division of a decimal by a whole number	By the end of the lesson, the learner should be able to: a) Explain how to divide a decimal by a whole number b) Divide decimals by whole numbers using calculators c) Enjoy dividing decimals by whole numbers	Learners are guided in pairs, in groups or individually to: Explain how to divide a decimal by a whole number Divide decimals by whole numbers using calculators Use IT devices to watch out operations involving decimals	The total height of six girls is 9.78 metres. What is the height of each girl?	Equivalent fraction board Circular and rectangular cut outs **REFERENCE** *Mentor Mathematics Learner's Book*	Class activities Class written tests Out of school/ home assignments or activities	

							Grade 7 pg. 58-59		
	2	*NUMBERS*	Decimals Division of a decimal by a decimal	By the end of the lesson, the learner should be able to: a) Explain how to divide a decimal by a decimal b) Divide decimals by decimals using conversation c) Appreciate the use of decimals in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to divide a decimal by a decimal Divide decimals by decimals using conversation Work out practice exercise 6	How many times is the value of digit 2 greater than the value of digit 4 in the number 3.26784?	Circular and rectangular cut outs Counters **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 60*	Class activities Class written tests Out of school/ home assignments or activities	
	3	*NUMBERS*	Squares and square roots Squares of whole numbers	By the end of the lesson, the learner should be able to: a) Identify squares of whole numbers b) Work out squares of whole numbers using grids and charts c) Appreciate use of squares in real life situations	Learners are guided in pairs, in groups or individually to: Identify squares of whole numbers Work out squares of whole numbers using grids and charts Work out practice exercise 1	What is the sum of the squares of 12 and 16?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 61-62*	Class activities Class written tests Out of school/ home assignments or activities	
	4	*NUMBERS*	Squares and square roots Squares of fractions	By the end of the lesson, the learner should be able to: a) Determine the squares of fractions in different situations b) Work out squares of fractions using grids and calculators c) Appreciate use of squares in real life situations	Learners are guided in pairs, in groups or individually to: Determine the squares of fractions in different situations Work out squares of fractions using grids and calculators Work out practice exercise 2	What is the sum of the squares of 2,1/2 and 4, ¼?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 63-64*	Class activities Class written tests Out of school/ home assignments or activities	
	5	*NUMBERS*	Squares and square roots Squares of decimals	By the end of the lesson, the learner should be able to: a) Determine the squares of decimals by multiplication b) Work out squares of decimals using long multiplication method in different situations c) Appreciate use of squares in real life situations	Learners are guided in pairs, in groups or individually to: Determine the squares of decimals by multiplication Work out square of decimals using long multiplication method in different situations Work out practice exercise 3	Where do we apply squares and square roots in daily activities?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 64-65*	Class activities Class written tests Out of school/ home assignments or activities	
10	1	*NUMBERS*	Squares and square roots Square root of whole numbers	By the end of the lesson, the learner should be able to: a) Determine the square roots of whole numbers b) Find the square root of whole numbers using factorization method in different situations	Learners are guided in pairs, in groups or individually to: Match each number with the correct square root Determine the square roots of whole numbers Find the square root of whole	How do we apply squares and square roots in daily activities?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 66-67*	Class activities Class written tests Out of school/ home assignments	

			c) Appreciate use of squares roots in real life situations	numbers using factorization method Work out practice exercise 4			or activities	
2	*NUMBERS*	Squares and square roots Square root of fractions	By the end of the lesson, the learner should be able to: a) Determine the square roots of fractions b) Work out the square root of fractions using division method in different situations c) Appreciate use of squares roots in real life situations	Learners are guided in pairs, in groups or individually to: Determine the square roots of fractions Work out the square root of fractions using division method in different situations Work out practice exercise 5	A square mat has an area of 5,1/16 metre squared. What is the length of its sides in metres?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 68-69*	Class activities Class written tests Out of school/ home assignments or activities	
3	*NUMBERS*	Squares and square roots Square root of decimals	By the end of the lesson, the learner should be able to: a) Explain how to find the square root of decimals using division method b) Determine the square roots of decimals in different situations using division method c) Appreciate use of squares and square roots in real life situations	Learners are guided in pairs, in groups or individually to: Explain how to find the square root of decimals using division method Determine the square roots of decimals in different situations using division method Work out practice exercise 6	What is the square root of 0.64?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 69-70*	Class activities Class written tests Out of school/ home assignments or activities	
4	*ALGEBRA*	Algebraic expressions Forming algebraic expressions	By the end of the lesson, the learner should be able to: a) Discuss and classify objects in their immediate environment according to similarities or differences b) Form algebraic expressions from real life situations c) Appreciate use of algebraic expressions in real life	Learners are guided in pairs, in groups or individually to: Discuss and classify objects in their immediate environment according to similarities or differences Form algebraic expressions from real life situations Work out practice exercise 1	Kelvin had **x** books, Eunice has **y** books and Jossy has **z** books. How many books do they have altogether?	Place value charts Number cards **REFERENCE** *Mentor Mathematics Learner's Book Grade 7 pg. 71-72*	Class activities Class written tests Out of school/ home assignments or activities	
5	*ALGEBRA*	Algebraic expressions Forming algebraic expressions from algebraic	By the end of the lesson, the learner should be able to: a) Discuss how to form algebraic expressions from the classified objects b) Read and interpret algebraic statements to form algebraic expressions c) Appreciate use of algebraic	Learners are guided in pairs, in groups or individually to: Discuss how to form algebraic expressions from the classified objects Read and interpret algebraic statements to form algebraic expressions Work out practice exercise 2	What is algebraic expression to: **b** added to twice **b** and the result multiplied by 7?	Place value charts Number cards **REFERENCE** **Mentor Mathematics Learner's Book Grade 7 pg. 72-73**	Class activities Class written tests Out of school/ home assignments or activities	

			statements	expressions in real life				
11	1	*ALGEBRA*	Algebraic expressions Simplifying algebraic expressions (1)	By the end of the lesson, the learner should be able to: a) Discuss how to simplify algebraic expressions from the classified objects b) Simplify algebraic expressions in real life situations c) Appreciate use of algebraic expressions in real life	Learners are guided in pairs, in groups or individually to: Discuss how to simplify algebraic expressions from the classified objects Simplify algebraic expressions in real life situations Work out practice exercise 3	What is the solution to $2p + 5p + 6p$?	Place value charts Number cards **REFERENCE Mentor Mathematics Learner's Book Grade 7 pg. 74-75**	Class activities Class written tests Out of school/ home assignments or activities
	2	*ALGEBRA*	Algebraic expressions Simplifying algebraic expressions (1)	By the end of the lesson, the learner should be able to: a) Discuss how to simplify algebraic expressions using number cards b) Simplify algebraic expressions in real life situations c) Appreciate use of algebraic expressions in real life	Learners are guided in pairs, in groups or individually to: Discuss how to simplify algebraic expressions using number cards Simplify algebraic expressions in real life situations Work out practice exercise 4	Can you simplify the expression: $5(3a) + 2a$?	Place value charts Number cards **REFERENCE Mentor Mathematics Learner's Book Grade 7 pg. 76-77**	Class activities Class written tests Out of school/ home assignments or activities
	3	*ALGEBRA*	Linear equations Forming linear equations	By the end of the lesson, the learner should be able to: a) Role play activities involving equations with one unknown for example weighing using beam balance and shopping activities b) Form linear equations in one unknown in different situations c) Apply linear equations in one unknown to real life situations	Learners are guided in pairs, in groups or individually to: Role play activities involving equations with one unknown for example weighing using beam balance and shopping activities Form linear equations in one unknown in different situations Work out practice exercise 1	How do we use linear equations in real life?	Place value charts Number cards **REFERENCE Mentor Mathematics Learner's Book Grade 7 pg. 77-79**	Class activities Class written tests Out of school/ home assignments or activities
	4	*ALGEBRA*	Linear equations Solving linear equations (1)	By the end of the lesson, the learner should be able to: a) Discuss how to form and solve linear equations generated from role play activities b) Solve linear equations in one unknown in different situations c) Reflect on use of linear equations in real life situations	Learners are guided in pairs, in groups or individually to: Discuss how to form and solve linear equations generated from role play activities Solve linear equations in one unknown in different situations	What is $p + 4 = 10$?	Place value charts Number cards **REFERENCE Mentor Mathematics Learner's Book Grade 7 pg. 79-81**	Class activities Class written tests Out of school/ home assignments or activities

					Work out practice exercise 2			
	5	*ALGEBRA*	Linear equations Solving linear equations (2)	By the end of the lesson, the learner should be able to: a) Discuss how to form and solve linear equations generated from role play activities b) Solve linear equations in one unknown in different situations c) Reflect on use of linear equations in real life situations	Learners are guided in pairs, in groups or individually to: Discuss how to form and solve linear equations generated from role play activities Solve linear equations in one unknown in different situations Work out practice exercise 3	What is 3 (m + 5) = 21?	Place value charts Number cards **REFERENCE** **Mentor Mathematics Learner's Book Grade 7 pg. 81-82**	Class activities Class written tests Out of school/ home assignments or activities
12	1	*ALGEBRA*	Linear equations Application of linear equations	By the end of the lesson, the learner should be able to: a) Apply linear equations in one unknown to real life situations b) Use IT to form and solve linear equations c) Reflect on use of linear equations in real life situations	Learners are guided in pairs, in groups or individually to: Apply linear equations in one unknown to real life situations Use IT to form and solve linear equations Work out practice exercise 4	The sum of two consecutive numbers is 104. What are the numbers?	Place value charts Number cards **REFERENCE** **Mentor Mathematics Learner's Book Grade 7 pg. 82-83**	Class activities Class written tests Out of school/ home assignments or activities
	2	*ALGEBRA*	Linear inequalities Application of linear inequality symbols	By the end of the lesson, the learner should be able to: a) Use inequality cards to complete simple inequality statements b) Apply inequality symbols to inequality statements in learning situations c) Appreciate use of linear inequalities in real life	Learners are guided in pairs, in groups or individually to: Use inequality cards to complete simple inequality statements Apply inequality symbols to inequality statements in learning situations Work out practice exercise 1	What is an inequality? Why do we use linear equations in real life?	Place value charts Number cards **REFERENCE** **Mentor Mathematics Learner's Book Grade 7 pg. 84-85**	Class activities Class written tests Out of school/ home assignments or activities
	3	*ALGEBRA*	Linear inequalities Forming simple linear inequalities	By the end of the lesson, the learner should be able to: a) Use inequality cards to form simple linear inequalities with one unknown b) Form simple linear inequalities in one unknown in different situations c) Enjoy forming simple linear inequalities	Learners are guided in pairs, in groups or individually to: Use inequality cards to form simple linear inequalities with one unknown Form simple linear inequalities in one unknown in different situations Work out practice exercise 2	Can you form an inequality from this statement: a jerrican holds at most 20 litres of water?	Place value charts Number cards **Mentor Mathematics Learner's Book Grade 7 pg. 86-87**	Class activities Class written tests Out of school/ home assignments or activities
	4	*ALGEBRA*	Linear inequalities	By the end of the lesson, the learner should be able to:	Learners are guided in pairs, in groups or individually to:	Why do we use linear	Place value charts Number cards	Class activities

				a) Represent simple inequality statements on a number line b) Illustrate by drawing simple inequalities on a number line c) Appreciate use of linear inequalities in real life.	Represent simple inequality statements on a number line Illustrate by drawing simple inequalities on a number line Work out practice exercise 3	inequalities in real life?	**REFERENCE** **Mentor** **Mathematics** **Learner's Book** **Grade 7 pg. 87-89**	Class written tests Out of school/ home assignments or activities	
	5	*ALGEBRA*	Linear inequalities Forming compound inequality statements	By the end of the lesson, the learner should be able to: a) Use inequality cards to complete compound inequality statements b) Illustrate by drawing compound inequalities in one unknown on a number line c) Appreciate use of linear inequalities in real life.	Learners are guided in pairs, in groups or individually to: Use inequality cards to complete compound inequality statements Illustrate by drawing compound inequalities in one unknown on a number line Work out practice exercise 4	How can you write linear inequality x > 2 and x < 6 in compound inequality?	Place value charts Number cards **REFERENCE** **Mentor** **Mathematics** **Learner's Book** **Grade 7 pg. 90-91**	Class activities Class written tests Out of school/ home assignments or activities	
13				**END OF TERM EXAMINATION**					