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P5 MATHEMATICS SCHEME OF WORK TERM ONE


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| 2 | 2 |  |  | UNION OF SETS <br> i) Definition of union of sets. <br> ii) Symbol for union of sets. <br> iii) Finding union of sets. <br> iv) Number of elements in the union of sets. <br> v) Representing union sets on a Venn diagram. <br> THE DIFFERENCE OF SETS <br> i) Definition of difference of sets. <br> ii) How difference of sets is represented symbolically. <br> iii) Diagrammatic representation of difference of sets. <br> iv) Listing members of the difference of sets. <br> v) Number of members in the difference of sets. | Critical thinkin <br> $g$ and putting inform ation on the Venn diagra m | Learners should be able to: <br> i) Define union of sets. <br> ii) Write the symbol for union of sets. <br> iii) Form union of sets from given sets. <br> iv) Write the number of elements in the union of sets. <br> v) Represent union of sets on a Venn diagram. <br> vi) Derive members of union of sets from a Venn diagram. <br> Learners should be able to: <br> i) Define difference of sets. <br> ii) Represent difference of sets symbolically. <br> iii) Represent difference of sets diagrammatically. <br> vi) Identify and list members of the difference of sets. <br> iv) Write number of members in the difference of sets. | Leaners should: <br> 3) Read vocabularies with correct intonation and pronunciation. <br> 4)Spell vocabularies correctly. | Drawing set symbols Shading sets Applying symbols in given sets Reading applied symbols Doing some exercises | Class discussio n. Demonstr ation. Explanati on | Pens, sets, pencil. \& Other real objects. chart showing types of sets. | New <br> Mk <br> Primar <br> y <br> mathe <br> matics <br> 2000, <br> Page 8 <br> - 12 <br> New <br> Mk <br> Primar <br> y <br> mathe <br> matics <br> 2000, <br> Page <br> 13-14 |  |
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PROBABILITY
i) Definition of probability.
ii) Formula to find probability.
iii) Probability using a
coin.
iv) Probability using a Dice.


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$|$| Class |
| :--- |
| discussion in |
| lesson , |
| answering |
| oral |
| questions |
| Doing an |
| exercise |
|  |
| Learners' |
| participation |
| in lesson as |
| guided by the |
| teacher. |
| Doing an |
| exercise |

New

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| 4 | 2 | $\begin{gathered} \mathrm{T} \\ \mathrm{H} \\ \mathrm{E} \\ \\ \mathrm{~N} \\ \mathrm{U} \\ \mathrm{M} \\ \mathrm{E} \\ \mathrm{R} \\ \mathrm{~A} \\ \mathrm{~T} \\ \mathrm{I} \\ \mathrm{O} \\ \mathrm{~N} \\ \\ \\ \mathrm{~S} \\ \mathrm{Y} \\ \mathrm{~S} \\ \mathrm{~T} \\ \mathrm{E} \\ \mathrm{M} \end{gathered}$ | Wri <br> ting <br> figu <br> res <br> in <br> wor <br> ds | Wri <br> ting <br> figu <br> res <br> in <br> wor <br> ds | WRITING FIGURES IN WORDS <br> i) Use of the place value table to write figures up to hundreds of thousands in words. <br> WRITING NUMBER WORDS IN FIGURES <br> i) Use of the place value table to write number word up to hundreds of thousands in figures. <br> COMPARING NUMBERS <br> i) Arranging up to six digit numbers from the smallest to the highest. <br> ii) Arranging up to six digit numbers from the highest to the smallest. | Critical <br> thinkin <br> g and proble m solving | Learners should be able to: <br> i) Use the place value table to write figures of up to hundreds of thousands in words. <br> Learners should be able to: <br> i) Use the place value table to write number word up to hundreds of thousands in figures. <br> Learners should be able to: <br> i) Arrange up to six digit numbers from the smallest to the highest. <br> ii) Arrange upto six digit numbers from the highest to the smallest. | Leaners should: <br> 4) Read vocabular ies with correct intonation and pronuncia tion. <br> Spell vocabularies correctly. | . Learners' participation in lesson as guided by the teacher Doing an exercise <br> Learners 'participation in lesson as guided by the teacher. Doing an exercise <br> Learner s participation in lesson as guided by the teacher. Doing an exercise | Chalkboar d illustration <br> Explanati on Oral questionin $g$ and answer. Mental work Discussio n. | Chart showing Place values <br> Chart showing Place values <br> Chalkboar d illustration | New <br> Mk <br> Primar <br> y <br> mathe <br> matics <br> 2000, <br> Page <br> 28 <br> New <br> Mk <br> Primar <br> y <br> mathe <br> matics <br> 2000, <br> Page <br> 29 <br> New <br> Mk <br> Primar <br> y <br> mathe <br> matics <br> 2000, <br> Page <br> 29 |  |
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| INTEGERS | Critical |
| :--- | :--- |

to:
i) Define integers
ii) Describe positive integers.
iii) Represent positive integers on a number line.
vi) Describe negative integers.
iv) Give expressions that represent negative integers.

## Learners should be able

to:
i) Identify negative and positive integers.
THE NUMBER LINE AND ORDERING INTEGERS
i) Integers on a number line.
2
ii) Symbols used for the positive and negative integers respectively
iii) Drawing a number line.
iv) Placing integers on a number line.
v) Ordering integers using a number line.
vi) Comparing the directions of integers on a number line.


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TERM TWO

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|  | 4 |  |  | Critical thinking and problem solving | The Learner: <br> 1. Defines substitution. <br> 2. Solves numbers involving substitution. <br> 3. Expands given expressions before substituting. | The meaning of substitute <br> Expansion. | SUBSTITUTION OF <br> NUMBERS <br> Example <br> If $a=3, b=4$; Find: <br> i) $\begin{aligned} & a+b \\ = & 3+4 \\ = & \underline{7} \end{aligned}$ <br> ii) $\begin{aligned} & 2 a+5 b \\ = & 2 \times a+5 \times b \\ = & 2 \times 3+5 \times 4 \\ = & 6+20 \\ = & \underline{26} \end{aligned}$ |  | Solving problems involving substitution |  |  |  |
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|  | 5 |  |  | Critical thinking and problem solving | The Learner: <br> 1. Collects like terms correctly. <br> 2. Uses the inverse operation to eliminate the unwanted number from either sides of an equation <br> 3. Solves for the unknown. | Collecting like terms. <br> Reading mathematical statements. | SOLVING EQUATIONS BY SUBTRACTION <br> Example $n+7=13$ $n+7-7=13-7$ <br> $\mathrm{n} \quad=13-7$ <br> $\mathrm{n} \quad=6$ |  | Solving simple equations of one variable. |  |  |  |
| 3 | 1 |  |  | Critical thinking and problem solving Appreciatio n . | The learner: <br> 1. Derives equations from given word problems. <br> 2. Solves for the unknown. | Collecting like terms. <br> Reading mathematical statements. | WORD PROBLEMS Example What number when added to 5 gives 11 Let the number be x $\begin{array}{ll} x+5=11 \\ x+5-5= & 11-5 \\ x \quad & =11-5 \\ x \quad & =6 \end{array}$ |  | i)Forming algebraic expression <br> s. <br> ii) solving simple problems involving algebra. |  |  |  |

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|  | 2 | $\begin{aligned} & \text { D } \\ & \text { o } \\ & \text { 罥 } \\ & \text { D } \end{aligned}$ |  |  | Critical thinking and problem solving | The learner: <br> 1. Collects like terms correctly. <br> 2. Uses the inverse operation to eliminate the unwanted number from either sides of an equation <br> 3. Solves for the unknown. | Collecting like terms. <br> Reading mathematical statements. | SOLVING <br> EQUATIONS BY <br> ADDITION <br> Example <br> Find the value of n : n - $\begin{array}{ll} 5=3 & \\ n-5=3 & \\ n-5+5=3+5 \\ n & =3+5 \\ n & =8 \\ n \end{array}$ |  | solving simple problems involving algebra. |  |  |  |
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|  | 3 | $\begin{aligned} & \stackrel{\rightharpoonup}{\sim} \\ & 0 \\ & \text { W } \\ & \text { D } \end{aligned}$ |  | $\sum_{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 0 <br> 1 <br> 6 | Critical thinking and problem solving | The Learner: <br> 1. Derives equations from given word problems. <br> 2. Solves for the unknown. | Collecting like terms. <br> Reading mathematical statements | WORD PROBLEMS <br> Example <br> A boy used 3 of his exercise books and remained with 4books. How many books did he have first? <br> Let the number of books he had be x $\begin{array}{ll} n-3=4 & \\ n-3+3 & =4+3 \\ n & =4+3 \\ n & =7 \end{array}$ <br> He had 7 books at first. |  | i)Forming algebraic expression s. <br> ii) solving simple problems involving algebra. |  |  |  |
|  | 4 | $\begin{aligned} & \text { D } \\ & \mathbf{0} \\ & \text { 買 } \end{aligned}$ |  |  | Critical thinking and problem solving | The learner: <br> 1. Collects like terms correctly. <br> 2. Uses the inverse operation to eliminate the unwanted number from either sides of an equation <br> 3. Solves for the unknown. | Read mathematical statements involving algebra. <br> Collecting like terms. | SOLVING MIXED <br> EQUATIONS <br> Example $\begin{aligned} & 8 a+4=3 a+14 \\ & 8 a-3 a+4=3 a-3 a+ \\ & 4 \\ & 5 a+4=14 \\ & 5 a+4-4=14-4 \\ & 5 a=10 \\ & 5 a=10^{2} \\ & 5=5 \\ & a=2 \end{aligned}$ |  | solving simple problems involving algebra. |  |  |  |

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|  | 5 |  |  |  | Critical thinking and problem solving | The learner: <br> 1. Solves for the unknown in the given equation by dividing. <br> 2. Forms equations from a given text and solve for the un known. | Read mathematical statements involving algebra. <br> Cross multiplication. | SOLVING <br> EQUATIONS BY <br> DIVIDING <br> Example <br> Solve: $5 \mathrm{a}=20$ <br> $5 \mathrm{a}=20$ <br> $5 \quad 5$ <br> $a=4$ |  | solving simple problems involving algebra. |  |  |  |
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| 4 | 1 | $\begin{aligned} & \text { D } \\ & 0 \\ & \text { N } \\ & \text { 品 } \end{aligned}$ |  |  | Critical thinking and problem solving | The learner: <br> 1. Solves equations involving fractions using the LCM. <br> 2. Derives equations from given word problems. <br> 3. Solves equations involving fractions in word problems. | Read mathematical statements involving algebra. <br> Cross multiplication. | $\begin{gathered} \hline \text { SOLVING EQUATIONS } \\ \hline \text { WITH FRACTIONS } \\ \hline \text { Example } \\ \text { Solve: } \frac{x}{3}=4 \\ \frac{x}{3}=\frac{4}{1} \\ 3 \times \frac{x}{3}=4 \times 3 \\ x=4 \times 3 \\ x=12 \\ \hline \end{gathered}$ |  | solving simple problems involving algebra. |  |  |  |
|  | 2 |  |  |  | Critical thinking and problem solving | The learner: <br> 1. Defines perimeter <br> is. <br> 2. State the formulae of finding perimeter of different figures. <br> 3. Derives an equation in order to solve the value of the required side of any shape. <br> 4. Solves for the unknown side of a figure by substituting correctly. | Meaning of perimeter. <br> Formula used to find perimeter. | PERIMETER: <br> i) Explanation of perimeter. <br> ii) Formulae for finding perimeters of different figures. <br> Example <br> The perimeter of a $P=36$ $\begin{array}{\|l\|l\|l} \|l\| l \\ \mathrm{~s}+\mathrm{s}+\mathrm{s}+\mathrm{s}=36 \\ 4 \mathrm{~s}=36 & \mathrm{~s}=9 \mathrm{~cm} \\ 4 & 4 & \text { one side } \\ \text { is } 9 \mathrm{~cm} & \\ \hline \end{array}$ |  | i)Forming algebraic expression <br> s. <br> ii) solving simple problems involving algebra. |  |  |  |

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|  | 5 |  |  |  | Critical and Creative thinking | The learner: <br> 1. Works out the multiples of given numbers. <br> 2. Works out the multiples of a required range of numbers. | Meaning of Multiples of numbers | MULTIPLES OF <br> WHOLE NUMBERS <br> Example <br> Multiples of 5 $\begin{aligned} & =(1 \times 5),(2 \times 5),(3 \times 5) . \\ & =5,10,15, \ldots \\ & \mathbf{M 5}=\{\mathbf{5}, \mathbf{1 0}, \mathbf{1 5}, \mathbf{2 0}, \\ & \mathbf{2 5}, \ldots\} \end{aligned}$ |  | Listing multiples of numbers. |  |  |  |
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| 5 | 1 |  |  |  | Critical and Creative thinking | The learner: <br> 1. <br> Defines a factor. <br> 2. Write factor of a number in short. <br> 3. Works out the factors of a given numbers by carrying out simple multiplication. <br> 4. Finds the greatest and lowest common factors of given numbers. | Meaning of factors <br> Meaning of common factors. | FACTORS OF NUMBERS AND COMMON FACTORS. <br> A factor is a number that divides another in an exact number of items. <br> Example <br> Find the factors of 12. $\begin{aligned} \mathrm{F}_{12 .} & =1 \times 12=12 \\ & =2 \times 6=12 \\ & =3 \times 4=12 \\ \mathbf{F}_{12} & =\{1,2,3,4, \mathbf{1 2 \}} \end{aligned}$ |  | Listing factors of numbers. |  |  |  |
|  | 2 |  |  |  | Critical and Creative thinking | The learner: <br> 1. Names some types of numbers. <br> 2. Gives examples of each type of numbers. <br> 3. Uses the knowledge of types of numbers to solve problems related to number pattern and sequence | Name the types of numbers from the number pattern. | TYPES OF NUMBERS. <br> Example <br> Odd numbers <br> Even numbers <br> Whole numbers <br> Counting numbers |  | Identifying and listing the types of numbers. |  |  |  |

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| 3 |  |  |  | Critical and Creative thinking | The learner： <br> 1．Defines prime numbers． <br> 2．Gives examples of prime numbers． <br> 3．Defines composite numbers． <br> 4．Gives examples of composite numbers． <br> 5．Determines whether a number is or composite by prime factorising． | Meaning of Prime numbers． <br> Meaning of composite numbers． | PRIME AND <br> COMPOSITE <br> NUMBERS <br> a）Prime numbers are numbers with two factors． <br> b）Composite numbers are numbers with more than two factors． |  | Identifying and listing the types of numbers． |  |  |  |
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| 4 |  |  |  | Critical and Creative thinking | The learner： <br> 1．Lists the numbers used when factorising． <br> 2．Primes factorise by tree method． <br> 3．Presents the prime factors in multiplication and notation（subscript） form． | Meaning of prime factorisation． <br> Prime numbers． | PRIME FACTORISATION USING A FACTOR <br> TREE． <br> Example <br> Prime factorise 12 <br> PF12 $=\{2 \times 2 \times 3\}$ or <br> PF $12=\left\{2_{1}, 2_{2}, 3_{1}\right\}$ |  | Listing factors of numbers． |  |  |  |
| $5$ |  |  |  | Problem－ solving | The Learner： <br> 1．Prime factorises given numbers of together using the ladder． <br> 2．Multiplies the prime factors to get the LCM． | Describe what LCM is． | USING A LADDER． Example <br> Prime factorise 216 $\text { PF216 }=2 \times 2 \times 2 \times 3 \times 3$ $\mathrm{x} 3$ <br> OR <br> PF216 $=\mathbf{2}_{1}, \mathbf{2}_{2}, \mathbf{2}_{3}, \mathbf{3}_{1}, \mathbf{3}_{2}, \mathbf{3}_{3}$ <br> LCM of 12 and $18=36$ |  | Finding the LCM of numbers． |  |  |  |

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| 6 | 1 |  |  |  | Problemsolving | The learner: <br> 1. States what a square number is. <br> 2. Calculates the square of a given number. <br> 3. Solves word problems involving square numbers. | Meaning of a square number. | SQUARE NUMBERS <br> These are numbers got by multiplying two equal numbers. <br> Example <br> What is the square of 5 ? $\begin{aligned} 5^{2} & =5 \times 5 \\ & =25 \end{aligned}$ <br> The square of 5 is 25 |  | Uing the types of numbers to form and solve patterns |  |  |  |
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| 6 | 2 |  |  |  | Problemsolving | The learner: <br> 1. States what a square root is. <br> 2. Finds the square roots of given square numbers. <br> 3. Solves word problems involving square roots. <br> 4. Works out the side of a square using the square root knowledge. | Meaning of a square root. | SQUARE ROOTS OF NUMBERS <br> A square root is a number that is multiplied by itself to get a square number. <br> Square root <br> Example <br> Find the square root of 25 $\begin{aligned} \sqrt{25} & =(5 \times 5) \\ & =5 \end{aligned}$ <br> The square root of 25 is 5 |  | Uing the types of numbers to form and solve patterns |  |  |  |

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|  | 3 | z 号 n 2 2 |  |  | Problemsolving | The learner: <br> 1. States what triangular numbers mean. <br> 2. Forms patterns of triangular numbers. | Description of triangular numbers. | TRIANGIULAR NUMBERS <br> These are numbers when whose dot are arranged form a triangular pattern Example <br> Adding consecutive numbers starting from 1 can get triangular numbers. |  | Uing the types of numbers to form and solve patterns |  | $\begin{aligned} & \text { A NEW MK PRIMARY MTC BK } 5 \\ & \text { PAGE } 90 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 4 |  |  |  | Problemsolving | The learner: <br> Uses the operations to find the next or missing number in a given sequence | Write and describe the next number in the sequence. | OPERATION ON <br> PATTERNS AND <br> SEQUENCES <br> Example <br> What is the next number in the sequence? |  | Uing the types of numbers to form and solve patterns |  |  |  |
|  | 5 |  |  |  | Effective communica tion and problem solving | The Learner: <br> 1. States what a fraction is. <br> 2. Names the parts of a fraction. <br> 3. Names the types of a fraction. <br> 4. Describes each type of fraction <br> 5. Gives examples of each type of fraction. <br> 6. Expresses improper fraction as a mixed fraction | i) Defining fractions <br> ii) Expressing improper fractions as mixed fractions | FRACTIONS <br> A fraction is part of a whole <br> PARTS OF A FRACTION <br> Numerator and denominator <br> TYPES OF FRACTIONS <br> a) Proper fractions <br> b) Improper fractions. <br> c) Mixed fractions <br> EXPRESSING IMPROPER <br> AS MIXED FRACTION <br> Example <br> Express $9 / 5$ as a fraction. $\begin{aligned} 9 \div 5 & =1 \text { rem. } 4 \\ & =14 I_{5} \end{aligned}$ |  | Writing definitions of fractions. |  |  |  |

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| 7 | 1 |  |  |  | Effective communica tion and problem solving | The Learner: Expresses mixed fraction as improper fraction. | i) Expressing improper fractions as mixed fractions <br> ii) Expressing mixed fractions as improper fractions | MIXED FRACTIONS <br> AS IMPROPER <br> Example <br> Express $42 / 3$ as an improper fraction $\begin{aligned} 42 / 3 & =\frac{W \times D+N}{D} \\ & =\frac{4 \times 3+2}{3} \\ & =\frac{12+2}{3} \\ 4 /_{3} & =\frac{14}{3} \end{aligned}$ |  | Expressing mixed fractions to improper fractions. |  |  |  |
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|  | 2 |  |  |  | Effective communica tion and problem solving | Learner: <br> 1. Represents equivalent fractions diagrammatically. <br> 2. Works out equivalent fractions by calculation. | Finding eqivalent fractions | EQUIVALENT FRACTION <br> Diagrammatic representation of equivalent fractions $1 / 2=1 / 2 \quad 2 / 4=1 / 2 \quad 36=1 / 2$ <br> Equivalent fractions by calculation Example <br> Write four fractions equivalent to $1 / 2$ $\begin{aligned} & \frac{1}{2}=1 \times 2,1 \times 3,1 \times 4,1 \times \\ & \underline{5} \\ & 2 \times 22 \times 32 \times 42 \times \\ & 5 \\ & 1 / 2=2 / 4,3 / 6,4 / 8, ~ 5 / 10 \end{aligned}$ |  | Finding equivalent fractions |  |  |  |

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|  | 3 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. Derives common factors of given parts of a fraction. <br> 2. Uses the GCF to reduce the given fraction | Reducing fractions | REDUCING FRACTIONS Example <br> Reduce ${ }^{12 / 24}$ to its simplest term $\begin{aligned} & \mathrm{F}_{12}=\{1,2,3,4,6,12\} \\ & \mathrm{F}_{24}=\{1,2,3,4,6,8, \\ & 12,24\} \\ & \mathrm{CF}=\{1,2,3,4,6,12\} \\ & \mathrm{GCF}=12 \\ & \frac{12}{24} \div 12 \\ & 24 \div 12 \\ & =1 / 2 \end{aligned}$ |  | Reducing fractions using GCF. |  |  |  |
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| 8 | 4 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. States the meaning of arrange. <br> 2. Defines ascending. <br> 3. Defines descending. <br> 4. Uses LCM to determine the size of a fraction. <br> 5. Arranges the fractions in the required order. | Ordering fractions use LCM as a determinant | ORDERING <br> FRACTIONS <br> To arrange fractions is to arrange fractions in ascending or descending order. <br> Example <br> Arrange $1 / 3,1 / 2,1 / 4$ in <br> a) Ascending order. <br> b) Descending order. <br> LCM of 2, 3 and $4=12$ $\begin{aligned} & 1 / 3, \times 12=4 \\ & 1 / 2 \times 12=6 \\ & \left.1 / 2 \times 13^{\text {nd }}\right) \\ & 1 / 4 \times 12=3 \\ & \left(3^{\text {rd }}\right) \\ & \left(1^{\text {st }}\right) \end{aligned}$ <br> Asc. Order $=1 / 41 / 3,1 / 2$, Desc. Order $=1 / 2,1 / 3,1 / 4$ |  | Ordering fractions using the LCM. |  |  |  |

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|  | 5 |  | $\begin{aligned} & 7 \pi \\ & 0 \\ & 0 \\ & \vdots \\ & \overline{0} \\ & 2 \end{aligned}$ |  | Effective communica tion and problem solving | The learner: <br> 1. Carries out addition of whole numbers to fractions. <br> 2. Adds wholes alone and later the fraction. | Addition of fractions with whole numbers. | ADDITION OF WHOLES TO FRACTIONS <br> Example $\begin{aligned} & 3 / 4+5 \\ & =5+3 / 4 \\ & =53 / 4 \end{aligned}$ <br> Example II $\begin{aligned} & 3^{2} / 5+7 \\ & =3+7+2 / 5 \\ & =10+2 / 5 \\ & =10^{2} \underline{5} \end{aligned}$ |  | Addition of fractions with a whole numbers. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 1 |  | $\begin{aligned} & 70 \\ & 0 \\ & \frac{1}{D} \\ & \frac{1}{0} \\ & \sum_{n} \end{aligned}$ |  | Effective communic ation and problem solving | The learner: <br> 1. Adds simple fractions using the LCM. <br> 2. Changes mixed fractions to improper fractions before adding the fractions <br> 3. Reduces the fractions to simpler terms. | Addition of fractions with fractions | ADDITION OF FRACTIONS <br> Example <br> Add: $1 / 4+1 / 2$ <br> LCM of 2 and $4=4$ $\begin{aligned} & =1+2 \\ & 4 \\ & =3 / 4 . \end{aligned}$ |  | Addition of fractions with different denominat ors |  |  |  |
|  | 2 |  |  |  | Effective communica tion and problem solving | The Learner: <br> 1. Solves word problems involving addition of fractions <br> 2. Changes mixed fractions to improper fractions before adding the fractions <br> 3. Reduces the fractions to simpler terms or change it to mixed fractions | i)Reading and interprets word ii)Addition of fractions with fractions problems. | WORD PROBLEMS IN <br> ADDITION OF <br> FRACTIONS <br> Example <br> John filled $1 / 2$ a tank with water in the morning and $2 / 5$ in he afternoon. what fraction of the tank was full of water? <br> $1 / 2+2 / 5$ LCM of 2 <br> and $5=10$ $\begin{gathered} =5+4 \\ 10 \\ =9 / 10 . \end{gathered}$ <br> The tank was filled with $9_{10}$ |  | Subtraction of fractions with different denomina. |  |  |  |

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|  | 3 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. Subtracts simple fractions using the LCM. <br> 2. Changes mixed fractions to improper fractions before adding the fractions <br> 3. Reduces the fractions to simpler terms or change improper fraction to mixed fraction | Subtraction of fractions with different different denominators | SUBTRACTION OF <br> FRACTIONS <br> Example <br> $1 / 2-1 / 3$ LCM of 2 and 3 <br> $=6$ <br> $=3-2$ <br> 6 <br> $=1 / 6$ <br> Example II $\begin{aligned} & 5-25 / 12 \\ & =5 / 1-29 / 12 \\ & =\frac{60-29}{12} \\ & =\underline{31} \\ & =2 \\ & =\underline{27}]_{12} . \end{aligned}$ |  | Subtraction of fractions with different denominat |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 4 |  |  |  | Critical thinking and problem solving | The learner: <br> 1. Solves word problems involving subtraction of fractions <br> 2. Changes mixed fractions to improper fractions before adding the fractions <br> 3. Reduces the fractions to simpler terms or change it to mixed fractions | Subtraction of fractions with different different denominators | WORD PROBLEMS IN SUBTARACTION OF <br> FRACTIONS <br> Example <br> A baby was given <br> $5 / 6$ litres of milk and drunk $7 / 12$ litres. How much milk remained? <br> Given - Drunk $\begin{array}{ll} =5 / 6-7 / 12 & \\ =\frac{10-7}{12} & \\ =.3 / 12 & \text { Reduce }=12 \\ =1 / 4 & \end{array}$ |  | Subtraction of fractions with different denominat ers |  |  |  |

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|  | 5 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. Solves fractions <br> by adding and <br> subtracting. <br> 2. Applies the knowledge of BODMAS when adding and subtracting fractions <br> 3. Changes mixed fractions to improper fractions before adding the fractions <br> 4. Reduces the fractions | Subtraction and addition of fractions with different denominators | ADDITION AND SUBTRACTION OF FRACTIONS $\begin{aligned} & \begin{array}{l} \text { Example } \\ 1 / 2+1 / 3-1 / 4 \\ 12 \\ =\frac{6+4-3}{12} \\ =\frac{10-3}{12} \\ =\underline{7} l_{12} \end{array} \\ & \text { Add first } \\ & \end{aligned}$ |  | Mixed addition and subtraction of fractions with different denominat ors |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 1 |  |  |  | Effective communica tion and problem solving | The learners: <br> 1. Multiplies fractions by wholes. <br> 2. Converts of' to a times sign. <br> 3. Reduces the answers to simpler terms. | Reading and solving problems involving multiplication of fractions by whole nbers. | MULTIPLICATION OF <br> FRACTIONS <br> Example I $\begin{array}{ll} 1 / 4 \times 3 \\ =1 / 4 \times 3 / 1 . & =\frac{1 \times 3}{4 \times 1} \\ & =3 / 4 \end{array}$ <br> Example II <br> $1 / 2$ of 16 'of' becomes $x$ $=1 / 2 \times 16$ $=1 / 2 \times{ }^{16} / 1 .$ $=1 \times 16=16$ <br> Reduce $\begin{aligned} & 2 \times 1 \\ &= 8 \\ & \hline \end{aligned}$ |  |  |  |  |  |

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| 10 | 2 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. Solves word problems involving multiplication of fractions <br> 2. Changes mixed fractions to improper fractions before adding the fractions <br> 3. Reduces the fractions to simpler terms or change it to mixed fractions | Reading and solving problems involving multiplication of fractions by whole nbers. | WORD PROBLEMS IN MULTIPLICATION OF FRACTIONS <br> Example <br> A mathematics book contains 200 pages. A pupil reads $3 / 5$ of the book. How many pages did the pupil read? <br> A pupil reads $3 / 5$ of 200 pages. <br> $=3 / 5$ of 200 pages <br> $=3 / 5 \times 200 / 1$. Pages <br> $=\frac{3 \times 200^{40}}{5 \times 1}$ pages $\begin{aligned} & 15 \times 1 \\ = & \frac{3 \times 40}{1 \times 1} \\ = & \mathbf{1 2 0} \text { Pages } \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 | $\begin{aligned} & \text { z } \\ & \text { 1 } \\ & \vdots \\ & \text { n } \\ & \text { ? } \\ & \hline \end{aligned}$ | 70 <br> 0 <br> 3 <br> 7 <br> 0 <br> 0 <br> 0 |  | Effective communica tion and problem solving | The learner: <br> 1. Give the reciprocal of a fraction given. <br> 2. Give reciprocals of whole numbers. | Reading and solving problems involving multiplication of fractions by whole nbers. | RECIPROCALS OF <br> FRACTION <br> Example <br> a) The recip. of $6=6 / 1$ <br> b) The recip. of $2 / 3=3 / 2$ <br> c) The recip. of $5 / 8=8 / 5$ <br> d) The recip. of $11 / 2=$ $2 / 3$ |  | ii)Multiplica tion of fractions by fractions. |  |  |  |

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| 11 | 1 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. Describes decimal places. <br> 2. Converts <br> fractions whose denominators are multiples of ten to decimal fractions. <br> 3. Uses the number of zeros a denominator has to determine the number of decimal places. <br> 4. Expresses mixed fractions as decimals by changing the mixed fraction to an improper fraction first. | Reading and solving problems involving division of fractions |  |  | Converting fractions to decimals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 |  |  |  | Effective communica tion and problem solving | The learner: <br> 1. Uses the number <br> of decimal places to determine the denominators. <br> 2. Converts <br> decimals to common fractions. <br> 3. Reduces fractions where necessary. | Reading and solving problems involving division of fractions ersa | CHANGING <br> DECIMALS TO <br> FRACTIONS <br> Example <br> Express 6.9 as a <br> common fraction. <br> $6.9=69 / 10 .(1$ dec. place <br> gives <br> $\quad 1$ zero on the <br> $\quad$ denominator). <br> $=69 / 10$. Change to <br> mixed. <br> $=\mathbf{6} 9 / 10$ |  | Converting decimals to fractions and vice |  |  |  |

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## TERM THREE

| WK | PD | THM | TPC | S/TP | L/SKL | COMPETENCES |  | CONTENT | METH | ACT | L/AID | REF | RE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | SUBJECT | LANGUAGE |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | $\begin{aligned} & 1 \\ & \& \\ & 2 \end{aligned}$ | $\begin{aligned} & \text { n } \\ & \frac{0}{0} \\ & \frac{\pi}{0} \\ & \hline \end{aligned}$ | $\begin{aligned} & \frac{\infty}{0} \\ & \frac{0}{\pi} \\ & 0 \\ & 0 \\ & \hline 0 \\ & \hline 0.0 \end{aligned}$ |  | Critical thinking and problem solving | The leaner: <br> 1. Represents and interpret the information on the pictograph. <br> 2. Answers the questions about the pictograph. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | PICTOGRAPH <br> Information is represented in pictorial form. <br> It always has a title and scale. <br> Example: <br> Study the pictograph below and answer the questions that follow. <br> Number of pupils who scored different grades: <br> (Refer to Pictograph in notes pg.1) <br> a) How many sat for the test? <br> b) How many are in excellent grade? <br> Exc $=21 / 2$ <br> @ star = 10 pupils <br> $21 / 2=5 I_{2} \times 10^{-5}$ <br> $=25$ pupils. | Demonstr ation Discussio n Observati on | Drawing a pictograph Learners will do exercise A1 in the lesson notes. |  | New Mk <br> Bk. 5 <br> Page <br> 214- <br> 217 |  |

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| 3 | $\begin{aligned} & 1 \\ & \& \\ & 2 \end{aligned}$ | $\begin{aligned} & \infty \\ & \frac{0}{0} \\ & \\ & 0 \end{aligned}$ | $\infty$ 0 0 0 0 0 0 |  | Recording information and problem solving. | The leaner : <br> 1. Records the information from the bar graph to the table. <br> 2. Solves problems related to the graph given. | The leaner: <br> 1. Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati on. <br> 2. Spells <br> the <br> vocabularie <br> s correctly. | RECORDING INFORMATION FROM <br> A BAR GRAPH TO A TABLE <br> Example <br> Study the graph bellow and answer the questions that follow <br> (Refer to the graph and table in notes pg.6) <br> What is the graph about? <br> What is shown on the horizontal axis? <br> What is the scale on the vertical axis | Discovery Discussio n | Recording informatio n from a bar graph to a table Learners will do exercise A6 in the lesson notes |  | $\begin{aligned} & \quad \text { Mk } \\ & 2000 \\ & \text { (new) } \\ & \text { Bk. } 5 \\ & \text { Pg } 227 \text { - } \\ & 228 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 3 \\ & \& \\ & 4 \end{aligned}$ | $\begin{aligned} & \frac{\Omega}{\square} \\ & \frac{0}{0} \\ & \frac{\pi}{0} \end{aligned}$ |  |  | Recording information and problem solving | The leaner: <br> 1. Interprets bar line graph. <br> 2. Solves problems related to the bar graph. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati on. <br> 2. Spells <br> the vocabularie s correctly. | BAR LINE GRAPH <br> Instead of bars, we can use lines to form bar line graphs. <br> Example <br> The graphs bellow show the age and weight of five pupils; <br> A: Age of pupils <br> Refer to the graph and table in notes pg.9) <br> B: Weight of pupils; Refer to the graph and table in notes pg.9) <br> A: <br> Name the pupils with same age. <br> How old is the youngest pupil? <br> How old is Aisha? <br> Who is 10 years old? Etc. <br> B: <br> How heavy is Ronald? <br> Name the pupils with same weight. <br> How much heavier is Hakim than Ronald? Etc. | Guided discussion Discovery | Interpreti ng bar line graphs given. Learners will do exercise A7 in the lesson notes |  | $\begin{aligned} & \text { Mk } \\ & 2000 \\ & \text { (new) } \\ & \text { Bk. } 5 \\ & \text { Pg 229- } \\ & 230 \end{aligned}$ |  |

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| 3 | 5 <br>  <br> 6 | $\begin{aligned} & \boldsymbol{\omega} \\ & \substack{\mathbf{\alpha} \\ \mathbf{\alpha} \\ \mathbf{\alpha} \\ \hline} \end{aligned}$ |  |  | Critical thinking and problem solving | The leaner: <br> 1. Draws bar line graphs using the information in the table. <br> 2. Solves problems related to the bar graph. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. <br> Spells <br> the <br> vocabularie <br> s correctly. | DRAWING BAR <br> Example: <br> A driver record he used through <br> Bar line graph <br> Refer to the $g$ Which day did fuel? etc | $\begin{aligned} & \text { LIN } \\ & \text { ATI } \\ & \text { d the } \\ & \text { out } \\ & \frac{T}{20} \end{aligned}$ | GR <br> amo <br> e w <br> W <br> 25 <br> no <br> leas |  | Demonstr ation Guided discussion | Drawing bar line graphs Solving problems related to bar line graphs. Learners will do exercise A8 in the lesson notes |  | $\begin{aligned} & \quad \text { Mk } \\ & 2000 \\ & \text { (new) } \\ & \text { Bk. } 5 \\ & \text { Page23 } \\ & 0 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | $7$ <br>  <br> 8 |  |  |  | Effective communicati on and problem solving | The leaner: <br> 1. <br> Defines <br> temperature. <br> 2. Names <br> the instruments used to measure temperature. <br> 3. Names <br> the units for measuring temperature. <br> 4. Solves <br> problems related to temperature by subtraction. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | MEASURING <br> Definition of te <br> An instrument temperature Units used to ${ }^{\circ} \mathrm{C}$ and ${ }^{\circ} \mathrm{F}$ ) Solving proble temperature by <br> Example <br> The temperatu serving was 95 the plate for 10 temperature w What was the <br> Temp. at servi After 10 minut <br> Fall in tempera |  |  | ure erat he tim aving <br> ature <br> $48^{0}$ | Discussio <br> n <br> Observati <br> on | -Solving some numbers related to temperatu re. <br> Discussin g work on page 233 of new Mk Bk. 5. <br> -Learners will do exercise B1 in the lesson notes |  | $\begin{aligned} & \quad \text { Mk } \\ & 2000 \\ & \text { (new) } \\ & \text { Bk. } 5 \\ & \text { Pg 233- } \\ & 234 \end{aligned}$ |  |

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| 3 | 9 |  |  |  | Effective communicati on and problem solving. | The leaner: <br> 1. Reads the maximum and minimum temperature. <br> 2. Solves <br> problems related to maximum and minimum temperature. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | READING MAXIMUM AND <br> MINIMUM TEMPERATURE <br> Example: <br> Study the maximum and minimum <br> thermometer below; <br> Refer to the thermometer in notes <br> pg.13) <br> Maximum Temp. $=40^{\circ} \mathrm{C}$ <br> Minimum Temp. $=-20^{\circ} \mathrm{c}$ <br> Difference between max. \& Min. <br> temp. $=40^{\circ}-20^{\circ}$ $\begin{array}{r} =40+20 \\ =\underline{60^{0}} \end{array}$ |  |  |  | Discussio <br> n <br> Oral <br> questionin $g$ and answer. | -Drawing thermomet ers and reading temperatu re on them. -Learners will do exercise B2 in the lesson notes |  | New Mk <br> 2000 <br> Bk. 5 <br> Pg 235 - <br> 226 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 10 |  |  |  | Critical thinking and problem solving | 1. <br> The <br> leaner: <br> 2. Draws a bar graph to represent the maximum and minimum temperature. <br> 3. Interprets the temperature graph. <br> 4. Solves simple problems related to the temperature graphs. | The leaner: <br> 1. Reads the involved vocabularie s in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | DRAV <br> GRAP <br> AND M <br> Exam <br> Draw <br> maxim <br> Time <br> Max. <br> Min. <br> Refer | G AND <br> IMUM T <br> bar grap <br> $m$ and $m$ <br> 10pm <br> 5 <br> 10 <br> the gr | NTERPR <br> ESENT <br> MP. <br> to rep inimum <br> 11pm <br> 10 <br> 20 <br> ph in | ETING A BAR AXIMUM <br> esent the emp. below <br> otes pg.14) | Guided discussion | -Drawing bar graphs from given rates of temperatu re. <br> -Learners will do exercise B3 in the lesson notes. | Chart of an illustr ated drawi ng of a bar graph | Mk <br> 2000 <br> (new) <br> Bk. 5 <br> Page <br> 236 |

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| 4 | 1 <br>  <br> 2 | MEASURES |  |  | Critical thinking and problem solving | The leaner: <br> 1. Applies formula for finding profit. <br> 2. Calculates profit for a given business transaction. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. <br> Spells <br> the <br> vocabularie <br> s correctly. | BUYING AND SELLING. <br> PROFIT <br> PROFIT = Selling price - Buying Price Or $P=S P-C P(B P)$ <br> Example <br> John bought a bucket for 2000/= and sold it at 2,400/=. Find his profit. <br> Cost price $=2,000 /=$ <br> Selling price $=2,400 /=$ $\begin{aligned} \text { Profit } & =S P-C P \\ & =2,400-2,000 \\ & =\mathbf{4 0 0} /= \end{aligned}$ $\text { Profit }=400 /=$ | Guided discussion Use of examples | Learners will do exercise B4 in the lesson notes | $\begin{aligned} & \text { Coins } \\ & \text { of } \\ & 500 \\ & 200 \\ & 100 \\ & 50 . \end{aligned}$ | Mk <br> 2000 <br> (new) <br> Bk. 5 <br> Page <br> 245 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 3 <br>  <br> 4 |  |  |  | Critical thinking and problem solving | The leaner: <br> 1. Applies the formula of finding loss. <br> 2. Calculates loss in a given transaction. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | LOSS <br> Loss = Cost price -Selling Price <br> Or $=\mathbf{C P}-\mathbf{S P}$ <br> Example <br> The cost of a radio is sh. 100,000 If it is sold at sh 80,000 , Find the loss made? $\begin{aligned} \text { Loss } & =\text { cost prise }- \text { selling price } \\ & =P C-S P \\ & =100,000-80,000 \\ & =20,000 \\ \text { Loss } & =\text { sh. } \mathbf{2 0 , 0 0 0} . \end{aligned}$ | Guided discussion | Tr./ Pupils participati on in the lesson. Learners will do exercise B5 in the lesson notes | Chalk <br> board <br> illustr <br> ation | $\begin{aligned} & \quad \text { Mk } \\ & 2000 \\ & \text { (new) } \\ & \text { Bk. } 5 \\ & \text { Page } \\ & 245 \end{aligned}$ |  |

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| 4 | $\begin{aligned} & 5 \\ & \& \\ & 6 \end{aligned}$ |  |  |  | Critical thinking an d problem solving. | The leaner: <br> 1. Applies <br> the formula for finding the cost price when profit and selling $g$ price are given. <br> 2. Calculates cost price in a given business transaction. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | FINDING COST PRICE WHEN PROFIT AND SP ARE GIVEN <br> Example <br> Kitanda sold a cow at sh. 225,000 and made a profit of sh. 35,000 . What was his cost price? $\begin{aligned} \text { Cost price } & =\text { SP }- \text { Profit } \\ & =225,000-35,000 \\ & =190,000 \end{aligned}$ <br> Cost price $=$ sh. 190,000 | Guided discussion | Learners will do exercise B6 \& B7 in the lesson notes | Chalk board illustr ation | Mk <br> 2000 <br> (new) <br> Bk. 5 <br> Page <br> 246 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 7 <br>  <br> 8 |  |  |  | Critical thinking and problem solving. | The leaner: <br> 1. Applies <br> the formula of finding selling price when profit and loss are given. <br> 2. Calculates selling price in a given business transaction. | The leaner: <br> 1. <br> Read <br> $s$ the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | SELLING PRICE WHEN <br> PROFIT/LOSS IS GIVEN. <br> Example <br> A trader bought a shirt at sh. 7,500. She sold it and made a profit of sh. 3,500 . What was her selling price? $\begin{aligned} \text { SP } & =\text { Buying price }+ \text { Profit } \\ & =7,500+3,500 \\ & =11,000 \end{aligned}$ <br> She sold it at sh. 11,000 | Guided discussion | Learners will do exercise B8 \& B9 in the lesson notes | Chalk board illustr ation | Mk 2000 (new) Bk. 5 Page 247 |  |
| 4 | 9 |  |  | $\frac{\pi}{y}$ | Critical thinking and problem solving. | The leaner: Finds the simple rates and proportions in a given business transaction. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | SIMPLE RATES I <br> Example <br> A book costs sh.500. What is the cost of 3 similar books? $\begin{aligned} 1 \text { book } & =\text { sh500 } \\ 3 \text { books } & =(3 \times 500) \text { Sh. } \\ & =\text { sh. } 1,500 \\ 3 \text { books } & =\text { sh. } 1,500 \end{aligned}$ | Discussio <br> n <br> Demonstr ation of shopping. | Learner/ Tr. participati on in the lesson. Learners will do exercise B10 in the lesson notes | Chalk board illustr ation | New Mk mtc pg 238 |  |

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| 4 | 10 |  | $\stackrel{\sim}{\text { M }}$ |  | Critical thinking and problem solving. | The leaner: <br> Finds the simple rates and proportions in a given business transaction. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. | SIMPLE RATES II <br> Example <br> 6 Pens cost sh. 900, What is the cost of 1 pen? $\begin{aligned} 6 \text { pens } & =\text { sh. } 900 \\ 1 \text { pen } & =\frac{900}{6} \\ & =\text { sh. } 150 \\ 1 \text { pen } & =\text { Sh } 150 \end{aligned}$ | Discussio <br> n <br> Demonstr ation of shopping. | Learner/ Tr. participati on in the lesson. Learners will do exercise B11 in the lesson notes | Chalk board illustr ation | New Mk mtc pg 238 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | $\begin{aligned} & 1 \\ & \& \\ & 2 \end{aligned}$ |  |  |  | Critical thing and problem solving. | The leaner: Finds the simple rates and problem solving in a given business transaction. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. | SIMPLE RATES III <br> Example <br> 5 books cost sh. 1000. Find the cost of 12 similar books. $\begin{aligned} 5 \text { books } & =1,000 \\ 1 \text { book } & =1,000 \\ & =5 \\ 1 \text { book } & =200 \\ 12 \text { bk. } & =12 \times 200 \\ & =\underline{2,400} \end{aligned}$ | Discussio <br> n <br> Demonstr ation of shopping. | Learner/ Tr. participati on in the lesson. Learners will do exercise B12 in the lesson notes | Chalk board illustr ation | New Mk mtc pg 238 |

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| 5 | $\begin{aligned} & 7 \\ & \& \\ & 8 \end{aligned}$ | MEASURES | $\begin{aligned} & \infty \\ & \overline{\bar{n}} \end{aligned}$ |  | Problem solving. | The leaner: <br> 1. Interprets <br> transport charges using a table. <br> 2. Solves problems related to the table. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. <br> Spells <br> the <br> vocabularie <br> s correctly. | TRANSPORT CHARGES (TABLE) <br> Example <br> The table below shows transport charges by bus between different towns in Uganda. Use it to answer the questions that follow: <br> a) How much will 3 people pay from Kampala to Kasese? $\begin{aligned} 1 \text { person } & =3,500 \\ 3 \text { people } & =3 \times 3,500 \\ & =10,500 \end{aligned}$ <br> 3 People will pay sh. 10,500 | Discovery Discussio n | -Learners participati on in lesson | Chalk <br> board <br> illustr <br> ation. | Mk <br> (new) <br> Bk. 5 <br> pg. 243. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 9 <br>  <br> 10 |  | $\begin{aligned} & \boldsymbol{\infty} \\ & \overline{\overline{\mathbf{n}}} \end{aligned}$ |  | Problem solving | The leaner: <br> 1. Interprets the cost charges from the graph in relation to the distance. <br> 2. Solves problems in relation to the cost and distance on the graph. | The leaner: <br> 1. Reads the involved vocabularies in the lesson correctly in correct intonation and pronunciation. 2. Spells the vocabularies correctly. | TRANSPORT CHARGES (GRAPH) <br> Example <br> The Graph below shows bus transport charges along Mukono Kampala road: <br> (Refer to the graph in the lesson notes pg 27) <br> a) How much will one pay for a distance of 15 Km ? <br> b) What distance will require me to pay sh. 400? <br> c) What is the difference in the cost of a journey of 15 Km and 5 Km ? | Discovery Discussio n | Interpretin g a transport graph Learners will do exercise B16 in the lesson notes |  | Mk <br> (new) <br> Bk. 5 <br> pg. 244 |  |

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| 6 | $\begin{aligned} & 1 \\ & \& \\ & 2 \end{aligned}$ |  | $\underset{\underline{V}}{\stackrel{\omega}{E}}$ | UNITS OPF TIME | Critical thinking and problem solving. | The leaner: <br> 1. Mentions the units of time. <br> 2. Converts hours to minutes. Converts minutes to hours. | The leaner: The leaner: <br> 1. Reads the involved vocabularies in the lesson correctly in correct intonation and pronunciation. 2. Spells the vocabularies correctly. | UNITS OF TIME <br> 1 Hour - 60 minutes <br> 1 Minute - 60 seconds <br> 1 Hour -3,600 seconds <br> Converting from one unit to another. <br> Example I <br> Convert 2 hours to minutes <br> 1 hour $=60$ minutes <br> 2 hours $=2 \times 60$ $\text { = } 120$ <br> 2 Hours $=120$ minutes <br> Example II <br> Convert 240 minutes to hours <br> 1 minute $=1 / 60$ hours <br> 240 minutes $=1 / 60 \times 240$ $=4$ <br> 240 minutes $=4$ hours . | Discussio <br> n | Learner/ Tr. Participati on in the lesson. Learners will do exerciseB 17 in the lesson notes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 3 <br>  <br> 4 |  | $\underset{\underline{V}}{\stackrel{\omega}{E}}$ |  | Critical thinking and problem solving. | The leaner: <br> Tells time using Am and PM. <br> 2. Reads time using quarter past or to. <br> 3. Draws a clock face showing time. | The leaner: <br> 1. Reads the involved vocabularies in the lesson correctly in correct intonation and pronunciation. 2. Spells the vocabularies correctly. | TELLING TIME USING AM. AND PM Example <br> (Refer to clock faces on page 40 of the lesson notes) <br> It is 2 O'clock in the morning or 2.00 am. <br> Telling time using $1 / 2,1 / 4$, "Past" or"To" | Guided discussion | Reading time from a clock face Learners will do exercise B18 in the lesson notes | Clock face Chalk board illustr ation | Mk MTh (new) Bk. 5 pg. 250 - 3 (old) 226-7. |
| 6 | 5 |  | $\underset{\underline{V}}{\stackrel{\rightharpoonup}{\Sigma}}$ |  | Problem solving | The leaner: Adds time using finite system. | The leaner: <br> 1. Reads the involved vocabularies in the lesson correctly in correct intonation and pronunciation. 2. Spells the vocabularies correctly. | ADDITION OF TIME <br> Example <br> Workout: | Guided discussion | Tr./ <br> Learner participati on in the discussion Learners will do exercise B19 in the lesson notes | Chalk <br> board <br> illustr <br> ation | Underst anding MTh Pupils Bk. 5 Pg. 228240 |

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| 6 | 6 |  | $\stackrel{\underset{V}{\mid}}{\stackrel{\rightharpoonup}{I}}$ |  | Problem solving | The leaner: <br> 1. Subtracts time. <br> 2. Regroups correctly in finite system when borrowing. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. Spells <br> the vocabularie s correctly. | SUBTRACTION OF TIME  <br> Example  <br> Hrs. $\quad \mathrm{M}$  <br> 9  <br> 10  | Guided discussion | Learners' participati on in discussion Learners will do exercise B20 in the lesson notes | Chalk <br> board <br> illustra <br> tion | Understa nding <br> MTh <br> Pupils <br> Bk. 5 Pg <br> 240 |  |
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| 6 | 7 |  | $\stackrel{\underset{V}{\mid}}{\stackrel{\rightharpoonup}{I}}$ |  | Critical thinking and problem solving | The leaner: <br> 1. Finds the duration involving AM and PM. <br> 2. Solves problems of duration by subtraction. | The leaner: <br> The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati on. <br> 2. Spells <br> the vocabularie s correctly. | FINDING DURATION INVOLVING "AM" AND "AM"; "PM" AND "PM" Example <br> Luyiga started walking from her home at 7.15 am and reached the town at 9.15 am. How long did it take her? <br> It took her 2Hours 10 Minutes | Guided discussion | Finding the duration by subtractin g Learners will do exercise B21 in the lesson notes | Chalk <br> board <br> illustr <br> ation | (New) <br> Mk Bk. <br> 5 pg . <br> 252 |  |

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| 6 | 8 |  | $\underset{\underline{V}}{\underset{\Sigma}{\omega}}$ |  | Problem solving. | The leaner: <br> 1. Finds duration of activities involved the Am and PM. <br> 2. Subtracts and add to find time duration. | The leaner: <br> 1. <br> Read <br> $s$ the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | FINDING DURATION INVOLVING <br> "AM AND "PM" <br> Example <br> The bus started its journey to Mbale at $9: 00$ am and reached its destination at 1:30 p.m. How long did the journey take? | Guided discussion | Finding the duration involving am /p.m. Learners will do exercise B22 in the lesson notes | Chalk <br> board <br> illustr <br> ation | (New <br> Mk) Bk. <br> 5 page <br> 252 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 9 <br>  <br> 10 |  | $\sum_{i}^{\text {ㅌ }}$ |  | Problem solving | The leaner: <br> 1. Interprets the distance on the timetable. <br> 2. Solves problems related to the timetable. <br> 3. Comprehends the distance timetable and solve the given problems. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | TIME TABLES <br> Example <br> The table below is a distance timetable for a bus travelling from Masindi to Kitgum. Use it to answer questions that follow. <br> (Refer to table on page 35 of the lesson notes) <br> a) At what time did the bus reach Kamudni? <br> b) What time did the bus leave Lira? | Guided discussion Discovery | Drawing and interpretin g tables Learners will do exercise B23 in the lesson notes | Chalk board illustr ation | (new) <br> Mk Bk. <br> 5 pg . <br> 253 |  |

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| 7 | $7$ <br> \& $8$ |  |  |  | Problem solving | The leaner: <br> 1. Finds the distance. <br> 2. Calculates the speed. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | DISTANCE, TIME AND SPEED <br> DISTANCE: <br> Distance = Speed x Time <br> Example: <br> Find the distance covered by a driver for 2 hours at a speed of $60 \mathrm{~km} / \mathrm{hr}$ $\begin{aligned} \text { Distance } & =\text { Speed } \times \text { Time } \\ & =60 \mathrm{~km} / \mathrm{hr} \times 2 \mathrm{hrs} \\ & =60 \mathrm{~km} \times 2 \\ & =120 \mathrm{~km} \end{aligned}$ <br> He covered 120 km . | Guided discussion | Learner / Tr. participati on in the lesson. Learners will do exercise B27 in the lesson notes <br> Learners will do exercise B28 in the lesson notes | Chalk <br> board <br> illustr <br> ation | (new) <br> Mk Bk. <br> 5 <br> Pg. 254 <br> $-258$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | 9 |  |  |  | Problem solving. | The leaner: <br> 1. Finds the distance. <br> 2. Calculates the speed. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. <br> Spells <br> the vocabularie s correctly. | SPEED <br> Speed $=\frac{\text { Distance }}{\text { Time }}$ <br> Example: <br> At what speed does a cyclist travel if he completes a distance of 150km in 3 hrs ? <br> Speed = Distance <br> Time 50 $=150 \mathrm{~km}$ 3hrs $1$ $=\underline{50 \mathrm{~km} / \mathrm{hr}}$ | Guided discussion | Learner / Tr. participati on in the lesson. Learners will do exercise B27 in the lesson notes | Chalk <br> board <br> illustr <br> ation | (new) <br> Mk Bk. <br> 5 <br> Pg. 254 <br> $-258$ |

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| 7 | 10 |  |  | $\underset{V}{\underset{V}{\mid}}$ | Critical thinking and problem solving | The leaner: Calculates the time taken by a moving object to cover a given distance.. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | $\frac{\text { TIME }}{\text { Time }}=\frac{\text { Distance }}{\text { Speed }}$ <br> Example: <br> Calculate the time taken by a car travelling at $60 \mathrm{~km} / \mathrm{hr}$ to cover a journey of 480 km . $\begin{aligned} \text { Time } & =\frac{\text { Distance }}{\text { Speed }} \\ & =\frac{480 \mathrm{~km}}{60 \mathrm{~km} / \mathrm{hr}} \\ & =\frac{48}{6 \mathrm{hr}} \\ & =8 \mathrm{hrrs} \end{aligned}$ | Guided discussion | Learner / Tr. participati on in the lesson. Learners will do exercise B29 in the lesson notes | Chalk <br> board <br> illustr <br> ation | $\begin{aligned} & \text { (new) } \\ & \text { Mk Bk. } \\ & 5 \\ & \text { Pg. } 254 \\ & -258 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 1 |  | $\begin{aligned} & \frac{\grave{2}}{\mathbf{U}} \\ & \frac{1}{\mathbf{a}} \end{aligned}$ | MEASURES IN LITERS AND MILLILITRES | Critical thinking and problem solving. | The leaner: <br> 1. Uses ml or cc as the same units for measuring liquids. <br> 2. Compares cc to ml . | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | MEASURING IN LITRES AND MILLILITRES. <br> ii) $\quad \begin{array}{c}\text { Comparing soda bottles } \\ 300 \mathrm{ml} 300 \mathrm{cc}\end{array}$ <br> iii) $\quad \begin{array}{l}500 \mathrm{ml} 500 \mathrm{cc} \\ \text { Comparing milk packets }\end{array}$ <br> 1 litre and 1000 ml <br> (Refer to diagrams in the lesson notes Pg.55) | Guided discussion | Learner / Tr. participati on in the lesson. Comparin g cc to ml Learners will do exercise B30 in the lesson notes | Chalk <br> board <br> illustr <br> ation <br> Empt <br> y <br> soda <br> bottle <br> s tins <br> bottle <br> s . | (New) <br> Mk 5 <br> pg. 260- <br> new) Mk <br> Bk. 5 <br> pg. 259 <br> -64.3 |
| 8 | 2 <br>  <br> 3 |  |  |  | Critical thinking and problem solving. | The leaner: <br> 1. Changes litres to mi. <br> 2. Converts litres to ml with fractions or decimals. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | CHANGING LITRES TO ML. <br> Example <br> Change 7 litres to ml $\begin{aligned} \text { 1litre } & =1000 \mathrm{ml} \\ 7 \text { litres } & =7 \times 1000 \\ & =7000 \mathrm{ml} \end{aligned}$ | Guided class discussion | Learner / Tr. <br> Participati on in class -Learners will do exercise B31 in the lesson | Chalk <br> board <br> illustr <br> ation | (New) <br> Mk 5 <br> pg. 263 |

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| 8 | 9 <br>  <br> 10 |  | $\stackrel{\mathscr{C N}}{\substack{\text { ® } \\ \Sigma}}$ | SWפ O1 Эイ ЭNION甘Hכ | Critical thinking and problem solving. | The leaner: <br> 1. Converts KG to grams. <br> 2. Performs calculations involving fractions. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | CHANGING KG TO GMS <br> Example <br> Express 5 kg to grams <br> $1 \mathrm{~kg}=1000 \mathrm{gm}$ <br> $5 \mathrm{~kg}=5 \times 1000 \mathrm{gms}$ <br> $=5000 \mathrm{gms}$ | Guided discussion | Learner/Tr .participati on in the lesson. -Learners will do exercise B34 in the lesson | Chalk board illustr ation | (new) <br> Mk bk. 5 <br> pg. 262 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 1 |  | $\frac{\sqrt{n}}{2}$ |  | Problem solving. | The leaner: <br> 1. <br> Expresses <br> grams to Kg . <br> 2. Expresses <br> grams to Kg using fractions. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | $\begin{aligned} & \text { EXPRESSING GRAMS TO KG } \\ & \text { Example } \\ & \text { Express } 4000 \mathrm{~g} \text { in } \mathrm{Kg} \\ & 1000 \mathrm{~g}=1 \mathrm{~kg} \\ & 1 \mathrm{~g} \quad=\frac{1}{\mathrm{~kg}} \\ & \quad 1000 \quad 4 \\ & 4000 \mathrm{~g}=\frac{1}{2} \times 4000 \\ & 1000 \\ & \mathbf{4 0 0 0} \mathrm{~g}=\mathbf{4 k g} \end{aligned}$ | Guided class discussion | Learners participati on in class -Learners will do exercise B35 in the lesson | Chalk <br> board <br> illustr <br> ation | (New) <br> Mk Bk. <br> 5 Pg . <br> 262 |  |
| 9 | $2$ $3$ |  | $\xrightarrow[\text { ¢ }]{\underline{\text { ¹ }}}$ | $\begin{aligned} & \boldsymbol{\sim} \\ & \underset{Z}{Z} \end{aligned}$ | Critical and creative thinking | The leaner: <br> 1. Defines a line. <br> 2. Defines a line segment. <br> 3. Names the types of lines. <br> 4. Draws each type. <br> 5. Identify the types of lines. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | LINES  <br> 5. Definition of a line. <br> 6. Definition of a line segment. <br> 7. Naming the types of lines. <br> 8. Describing each type of line. <br> 9. Drawing each type of line. <br> 10. Identifying the types of lines. | Guided discussion | Learners' participati on in the lesson. | M,Ch alkbo ard illustr ation <br> Desks <br> Walls | A new <br> Mk <br> Math <br> page <br> 175-176 |  |

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| 9 | 4 |  | $\begin{aligned} & \boldsymbol{\omega} \\ & \underset{Z}{\mathbf{Z}} \end{aligned}$ |  | Problem solving. | The leaner: <br> 1. <br> Defines <br> intersecting lines. <br> 2. Forms intersecting lines. <br> 3. Identifies <br> points of intersection of a given line. <br> 4. Names the points of intersection. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | INTERSECTING LINES <br> 5. Definition of intersecting lines. <br> 6. Forming intersecting lines using straight objects. <br> 7. Identifying points of intersection. <br> 8. Naming the points of intersection. | Guided discussion | Drawing intersectin g lines. Learners will do Exercise C1 | Pencil <br> s <br> Rubb er <br> Band <br> s <br> Chalk <br> board <br> illustr <br> ation | A new <br> Mk <br> Math <br> page <br> 179 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 5 |  | $\begin{aligned} & \boldsymbol{\infty} \\ & \underset{Z}{\mathbf{Z}} \end{aligned}$ |  | Critical thinking and problem solving. | The leaner: <br> 1. Defines a parallel line. <br> 2. Draws the symbol for parallel lines. <br> 3. Draws parallel lines. <br> 4. Identifies parallel lines from a set of a given lines. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | PARALLEL LINES <br> Definition of parallel lines. <br> - The symbol for parallel lines. <br> - Drawing parallel lines. <br> - Identifying parallel lines. | -Guided discussion observatio n | Drawing parallel lines. Identifying parallel lines from immediate surroundin g. | Objec <br> ts in and out of the class rooms eg desks | A new Mk Math page 175-176 |  |

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| 9 | 6 <br>  <br> 7 |  | $\begin{aligned} & \boldsymbol{M} \\ & \underset{Z}{Z} \end{aligned}$ |  | Critical thinking and problem solving | The leaner: <br> 3. Describe <br> perpendicular lines. <br> 4. Draw a <br> symbol for perpendicular lines. <br> 5. Name <br> some shapes with perpendicular lines. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. <br> Spells <br> the <br> vocabularie <br> s correctly. | PERPENDICULAR LINES <br> 1) Description of perpendicular lines. <br> 2) The symbol for perpendicular lines. <br> 3) Identifying perpendicular lines. <br> 4) Identifying perpendicular lines. <br> 5) Naming some shapes with perpendicular lines. | -Guided discussion <br> observatio <br> n | Learners will do Exercise C 3 | Objec ts in and out of the class rooms eg desks <br> walls, books , sets, rulers, etc. | A new <br> Mk <br> Math <br> page <br> 180-185 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 8 <br>  <br> 9 |  | $\begin{aligned} & \boldsymbol{\infty} \\ & \underset{Z}{\mathbf{Z}} \end{aligned}$ |  | Critical thinking and problem solving. | The leaner: <br> 1. Defines folding lines of symmetry. <br> 2. Identifies symmetric and non-symmetric shapes. <br> 3. Uses the given shapes to find out the number of folding symmetry. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | LINES OF SYMETRY <br> 4. Definition of line of symmetry. <br> 5. Meaning of symmetric and non-symmetric figures. <br> 6. Figures and lines of symmetry. <br> 7. The number of folding symmetry in different shapes. | -Practical lesson Discussio n | Learners will do Exercise C4 | Pairs of scisso rs, sheet $s$ of rectan gular paper | A new <br> Mk <br> Math <br> page $184-185$ |
| 9 | 10 |  | $\begin{aligned} & \boldsymbol{\sim} \\ & \underset{Z}{\mathbf{Z}} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \underset{0}{u} \\ & \underline{\underline{u}} \end{aligned}$ | Problem solving. | The leaner: <br> 1. Defines a circle. <br> 2. Names parts of the circle. <br> 3. Identifies the types of a circle. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | A CIRCLE <br> 3. Definition of a circle. <br> 4. Naming parts of a circle. <br> 5. Identifying the parts of a circle. | -Guided discussion | Learners will write some informatio n about the Circle in their notes. | Chalk board illustr ation | A new Mk <br> Math page 186 |

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| 10 | 1 <br>  <br> 2 |  |  | 0 <br> 品 <br> $\sum_{\boxed{~ L}}^{ \pm}$ 르푼 3 0 $\overline{2}$ $\boxed{8}$ | Critical thinking and problem solving. | The leaner: <br> 1. Defines radius. <br> 2. Identifies radius on a circle. <br> 3. Calculates the radius of a circle when diameter is given. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | FINDING RADIUS WHEN <br> DIAMETER IS GIVEN <br> Definition of radius. <br> Example <br> Calculating the radius of a circle when diameter given is 8 cm . $\begin{aligned} \text { Radius } & =\frac{\text { Diameter }}{2} \\ & =\frac{8 \mathrm{~cm}}{2} \end{aligned}$ <br> $\underline{\text { Radius }=4 \mathrm{~cm}}$ | -Guided discussion observatio n | Learners will do Exercise C5 | Chalk <br> board <br> illustr <br> ation | Underst anding mtc pg 184 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 3 |  |  |  | Problem solving. | The leaner: <br> 1. States the relationship between the radius and the diameter. <br> 2. Calculates the radius of a circle when diameter is given. <br> 3. Applies the right units for the answer. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. Spells <br> the vocabularie s correctly. | FINDING DIAMETER WHEN RADIUS IS GIVEN <br> 3. Definition of diameter. <br> 4. Identifying diameter from a circle. <br> 5. The relationship between the diameter and the radius. <br> Example <br> Calculating the diameter of a circle when radius given is 13 cm . $\begin{aligned} \text { Diameter } & =2 \mathrm{r} \\ & =2 \times r \\ & =2 \times 13 \mathrm{~cm} \\ \text { Diameter } & =26 \mathrm{~cm} \end{aligned}$ | -Guided discussion observatio n | Learners will do Exercise C6 | Chalk <br> board <br> illustr <br> ation | Underst anding mtc pg 185 |  |
| 10 | $4$ <br> \& 5 |  |  |  | Drawing | The leaner: <br> 1. Constructs a circle when radius is given. <br> 2. Constructs a circle when diameter is given. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | CONSTUCTING A CIRCLE <br> 6. Constructing a circle when radius is given. <br> 7. Constructing a circle when diameter is given. | Demonstr ation Observati on | Learners will do Exercise C7\& C8 | - ruler <br> - pair of <br> comp <br> asses <br> chalk <br> board <br> illustr <br> ation | A new <br> Mk <br> Math <br> page <br> 186 |  |

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| 10 | 6 | $\begin{aligned} & \text { خ } \\ & \stackrel{\text { ren }}{\stackrel{1}{y}} \\ & \sum_{0}^{\text {ü0 }} \end{aligned}$ |  |  | Drawing | The leaner: <br> 1. Constructs an equilateral triangle using a ruler and a pair of compasses. <br> 2. Constructs an equilateral triangle in a circle. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | CONSTRUCTING EQUILATERAL TRIANGLE <br> 4. Constructing equilateral triangles using a ruler and pair of compasses only. <br> 5. Constructing an equilateral triangle in a circle. | Demonstr ation Observati on | Learners will do Exercise C9 \&C10 | - ruler <br> - pair of comp asses chalk board illustr ation | A new <br> Mk <br> Math <br> page <br> 186-189 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | 7 $\&$ 8 |  | $\begin{aligned} & \text { z } \\ & \text { O} \\ & \text { प̀ } \\ & \text { x } \\ & \text { x } \end{aligned}$ |  | Critical thinking and problem solving | The leaner: <br> 1. Constructs a regular hexagon in a circle. <br> 2. Carries out accurate measurement. | The leaner: <br> 1. <br> Read <br> $s$ the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | A REGULAR HEXAGON IN A CIRCLE <br> Constructing a regular hexagon in a circle | Demonstr ation Observati on | Learners will do Exercise C11 | - ruler <br> - pair of comp asses chalk board illustr ation | A new <br> Mk <br> Math <br> page <br> 188 |  |
| 10 | 9 |  |  |  | Critical thinking and problem solving. | The leaner: <br> 1. Defines an angle. <br> 2. Describes the relation and revolution. <br> 3. Relates angles made to each turn. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | ANGLES. <br> 3. Definition of an angle. <br> 4. Description of a rotation and revolution. <br> 5. Demonstration of rotation and revolution. | Demonstr ation Observati on | Learners will do Exercise C12 | Chalk board illustr ation. Body move ments | A new <br> Mk <br> Math <br> page <br> 189-190 |  |

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| 10 | 10 |  | $\begin{aligned} & \mathscr{0} \\ & \stackrel{0}{0} \\ & \sum_{0}^{2} \end{aligned}$ |  | Critical thinking and problem solving. | The leaner: <br> 1. Names parts of a compass. <br> 2. Estimate angles between two given directions. <br> 3. Establishes small and big angles between two given directions. | The leaner: <br> 1. <br> Read <br> $s$ the <br> involved <br> vocabularie <br> $s$ in the <br> lesson <br> correctly in <br> correct <br> intonation <br> and <br> pronunciati <br> on. <br> 2. Spells the vocabularie s correctly. | COMPASS DIRECTION <br> 3. Naming parts of a compass. <br> 4. Estimating angles between two given directions. <br> 5. Establishing smaller and bigger angles between two given directions. | Demonstr ation Observati on | Learners will do Exercise C13 | -Chart showi ng comp ass directi on. | A new <br> Mk <br> Math <br> page <br> 191-192 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 1 |  |  |  | Critical thinking and problem solving. | The leaner: <br> 1. Finds angles made on a compass direction on making a turn. <br> 2. Finds direction made on a compass from an angle of turn. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | CLOCKWISE AND <br> ANTICLOCKWISE TURNS <br> 1. Finding angles made on a compass direction on making a turn. <br> 2. Finding directions made on a compass direction from an angle of turn. | Demonstr ation Observati on | Learners will do Exercise C14 | Chalk board illustr ation. Body move ments | A new <br> Mk <br> Math <br> page <br> 192 |  |
| 11 | 2 |  |  |  | Problem solving. | The leaner: <br> 1. Names types of angles. <br> 2. Describes each type of angles. <br> 3. Draw each type of angles. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | TYPES OF ANGLES <br> 4. Naming types of angles. <br> 5. Describing each type of angle. <br> 6. Drawing each type of angle. <br> 7. Identifying each type of angle. | Demonstr ation Observati on | Learners will do Exercise C15 | Chalk <br> board <br> illustr <br> ation | A new <br> Mk <br> Math <br> page <br> 193 |  |

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| 11 | 3 |  |  |  | Problem solving. | The leaner: <br> 1. Names the two types of scales. <br> 2. States when each scale is used. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | MEASURING ANGLES USING A PROTRACTOR. <br> 4. The inner and outer scale of a protractor. <br> 5. When the outer scale is used. <br> 6. When the inner scale is used. <br> 7. Using a protractor to measure given angles. | Discussio <br> n <br> Observati on | Learners <br> will do <br> Exercise <br> C16 | Protra ctor Pencil | A new <br> Mk <br> Math <br> page <br> 194-196 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 4 |  |  |  | Problem solving | The leaner: <br> 1. Constructs angles using a protractor. <br> 2. Labels and name the constructed angles. | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | CONSTRUCTING ANGLES. <br> Constructing angles using a protractor. | Discussio <br> n <br> Observati on | Learners will do Exercise C17 | Protra ctor -Ruler <br> Pencil | A new Mk <br> Math page 197 |  |
| 11 | 5 |  | $\begin{aligned} & \text { M } \\ & \text { u } \\ & \text { O} \\ & \text { Z } \end{aligned}$ | MEASURING ANGLES | Problem solving. | The leaner: <br> 1. <br> Measures <br> angles on a straight line using a protractor. <br> 2. Uses inner and outer scale of a protractor to measure angels on both sides of a straight line | The leaner: <br> 1. Reads the involved vocabularie $s$ in the lesson correctly in correct intonation and pronunciati on. <br> 2. Spells the vocabularie s correctly. | MEASURING ANGLES <br> 5. Measuring angles on a straight line using a protractor. <br> 6. Use of the inner and outer scales. | Discussio n Observati on | Learners will do Exercise C18 | Protra ctor | A new <br> Mk <br> Math <br> page <br> 198 |  |

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