**SIR APOLLO KAGGWA SCHOOLS**

**LESSON NOTES FOR PRIMARY THREE 2016**

**TERM I MATHEMATICS TOPICAL BREAKDOWN FOR P.3**

Topical breakdown

1. Sets
2. Naming and drawing sets
3. Grouping members in a set
4. Comparing sets
5. Types of sets; equal sets, union set, intersection set, empty set, equivalent , subsets etc
6. Listing members of a set
7. Answering questions about the venn diagram
8. Numeration system and place values
9. Finding missing numbers
10. Writing numbers shown on the abacus
11. Drawing and showing numbers on abacus
12. Writing place values and values of numbers
13. Writing numbers in words
14. Writing numbers in figures
15. Expanding numbers
16. Writing expanded numbers
17. Operation on whole numbers
18. Addition
* Addition of 2 digit number with and without carrying
* Addition of 3 digit number with and without carrying
* Addition of 4 digit number with and without carrying
1. Subtraction
* Subtraction of 2 digit number with and without carrying
* Subtraction of 3 digit number with and without carrying
* Subtraction of 4 digit number with and without carrying
1. Multiplication – multiplying by 2,3,4,5,6,7,8,9,10,11,12
2. Division – dividing by 2, and 3 (simple numbers)

**SIR APOLLO KAGGWA SCHOOLS**

**P.3 MATHEMATICS LESSON NOTES TERM 1 2015**

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| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Counting and finding missing numbers**Numbers between 0 - 99 e.g. 1. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
2. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
3. 52, 53, 54, 55, 56, 57, 58
4. 30, 40, 50, 60, 70, 80, 90, 100

Pupils will do a filling in exercise 1. 5, 10, 15, \_\_\_\_, 25, 30, 35, \_\_\_\_, 45, 50, \_\_\_\_, 60
2. 10, 9, 8, 7, 6, \_\_\_\_, 3, 2, \_\_\_\_, 0
3. 45, 46, 47, 48, \_\_\_\_, 50, 51, \_\_\_\_, 53
4. 100, 90, \_\_\_\_, 70 60, 50, \_\_\_\_, 30, 10
5. 52, 54, 56, \_\_\_\_, 60, 62, \_\_\_\_, 66
 |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Sets**Definition a set is a collection of well defined objects. Naming sets e.g. e.g A set of vowel letters {a, e i, o, u} A set of balls   Forming sets e.g. Draw a set of numbers 1, 2, 3, 4, 5, 6b) Draw a set of books   Counting members in a sete.g. a) A set of two treesb) A set of 3 pots.1. Draw these sets
2. A set of 2 bottles
3. A set of 5 huts
4. A set of 6 chairs
5. Name the sets below
6. b) (c)

b, c, f, Tina  Elizabeth  Mary  |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Making new sets** Subset – A subset s a small set got from a big set. Symbol for subset C and not subset CWhat is a subset?1. Make and name new sets.
 |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Empty sets / null set** Definition An empty set is a set with no members. The symbol for empty set is { } or Using empty or not empty 1. A set of men who breastfeed babies. Empty set
2. A set of birds with two eyes. Not empty set
3. A set of animals eaten as food. Not empty set
4. What is an empty set?
5. Use empty or not empty
6. A set of flies which are as big as flies.
7. A set of people who are women.
8. A set of homes with 10 people.
9. A set of cows with 3 eyes.
10. A set of 7 books.
11. Name the symbol given. { }
 |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division****Grouping members in a set** 1. Grouping in twos
2. Grouping in threes
3. Grouping in fives

**Example** There are 6 groups of two eggs. Group and fill the gaps. Exercise 1g of MK old edition pg8 |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division****Comparing sets using more or less**Examples  M N g y x w z Set M has 4 membersSet N h as 5 members Set N has more members than set M. Exercise 1d of MK old edition pg4 |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Types of sets**1. Equal sets : these are sets with same members and same number of objects.

e.g. A B 1, 2, 3 1, 2, 3Set A has 3 members Set B as 3 membersSince the members are the same, therefore they are equal sets. Symbols are; = equal to not equal to Exercise 1n Mk old edition pg18. |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Types of sets** 1. Equivalent sets and non equivalent sets

These are sets with the same number of elements; however the members may not be the same. e.g. X Y 1 7 8  Set X and set Y are equivalent sets. Define equivalent sets Exercise 1n Mk old edition pg 18. |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Listing members in a set** e.g. 1, 2, 3, 0, 5 = {0, 1, 2, 3 5} = { }**Matching sets** f a h b g c Exercise 1m of MK old edition pg 16. |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division****Finding common numbers (intersection)**Intersection symbol; ∩e.g. A = {1, 2, 3, 4} B = {0, 1, 2, 5}A ∩ B = {1, 2}R = { } S = { }R Ո S = { }Exercise from a textbook Identifying the intersection part on a venn diagram Eg. A B |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **The union set** Finding members in the union set using curry brackets. e.g. A ={a, b, c, d, f, e} B = {d, e, f, a} P = {1, 2, 3, 4} Q = {3, 5, 7, 9}A ∪ B = {a, f, e, b, c, d} P ∪ Q = {1, 2, 3, 4, 5, 7, 9}An exercise from a text bookUnion symbol = ∪Identifying the union part on a venn diagram Eg. A B  |
| Theme Sub-themeContentEvaluation activity | **Our Division****Name and location of our Division** **Finding number of members in a given set using symbol (n)**e.g. P = {1, 4, 7} Find n (P) P = {1,4,7} n (P) = 3 members M = {a, e, i, o, u}Find n(M) M = {a,e,i,o,u}n(M) = 5 members An exercise from a textbook |
| Theme Sub-theme | **Our Division****Name and location of our Division** **Finding the number of members in the intersection set using symbol (n)**e.g. P = {a, b, c} Q = {c, f, a} Find n (P∩Q) P∩Q = {a} n(P∩Q) = 1 member A = {1, 2, 3, 5} B = {2, 3, 5, 7, 9} Find n(A∩B) A∩B = {2, 3, 5} n(A∩B) = 3 members |
| Theme Sub-themeContent**Evaluation activity** | **Our Division****Name and location of our Division** **Finding number of members in the union set** e.g. S = {1, 2, 3, 4} J = {6, 7, 8} Find n (S∪J) S∪J = {1, 2, 3, 4, 6, 7, 8} n(S∪J) = 7 members  A = {a, b, c, d, e} B = {a, e, i, o, u} Find n(A∪B) A∪B = {a, b, c, d, e, i, o, u} n(A∪B) = 8 membersAn exercise from the textbook. |
| Theme Sub-themeContent**Evaluation activity** | **Our Division****Name and location of our Division** 1. Shading given sets

e.g shade set A  A B 1. **Representing information on a venn diagram**

Examples given;X = {0, 1, 2, 3, 4} Y = {1, 4, 7, 8, 0} **X Y** 3 1 4 7 1 0 8P = {a, b, c, d} Q = {d, e, f, g, i} **P Q** a d f b c d i1. Answering questions about a venn diagram

 A B 1 3 5 6 find; (i) A∪B 4 0 7 (ii) AՈB (iii) A only etc An exercise from the textbook  |
| Theme Sub-themeContent**Evaluation activity** | **Our Division****Physical features in our division** **Numeration system and place values (abacus)**Writing numbers on the abacus  **H T O TH H T O** 3 4 4 4 2 0 3An exercise from the MK 2000 bk3 pg21 |
| Theme Sub-themeContent**Evaluation activity** | **Our Division****Physical features in our division** **Place values** Filling in missing numbers in their place values e.g. 1. 603 = 6 hundreds 0 tens 3 ones
2. 14 = 1 tens 4 ones
3. 348 = 3 hundreds 4 tens 8 ones

Write these numbers 1. 3 hundreds 4 tens 5 ones = 345
2. 2 tens 6 ones = 26

An exercise from the MK 2000 Bk3 pg 222 and 223 |
| Theme Sub-themeContent**Evaluation activity** | **Our Division****Physical features in our division** **Finding place values** e.g. TH T H O 1 2 3 44 is ones, 3 is tens, 2 is hundreds, 1 is thousands Find the place value of 8 in the number: 4789Solution: 4789  tens The place value of 8 is tens An exercise from primary MTC Bk3 page 35 |
| Theme Sub-themeContent | Our division Physical features in our division Finding values of given numbers e.g find the value of 6 in the number 469  H T O469 = 4 6 9  ( 6x10) = 60 The value of 6 is 60 |
| Theme Sub-themeContent | Livelihood in our division Social services and their importance Finding sum of values e.g find the sum of the values of 7 and 8 in the number shown above  ThHTO4789 = 4789 (8x10)=80 (7x100)=700700+80780 |
| Theme Sub-themeContent | Livelihood in our division Social services and their importance Expanding numbers using place values Eg. Expand 234 HTO234 = (2x100)+(3x10)+(4x1)  |
| Theme Sub-themeContent | Livelihood in our division Social service and their importance Eg. Expand 234 using values 234= 200+30+5  |
| Theme Sub-themeContent | Livelihood in our division Social services and their importance Writing expanded numbers in short form Eg. What number has been expanded? 700+20+3 = 700 20 + 3 723 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Social services and their importance****Writing figures in words**e.g. Write 48 in words solution: 48 = 40 forty + 8 eight  48 forty eight An exercise from MK 2000 Bk3 pg23 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Social services and their importance** **Writing numbers in figures** e.g. Write ‘Two hundred twelve’in figuresTwo hundred = 200Twelve = +12Two hundred twelve 212An exercise 2g Mk Bk3 pg24 |
| Theme Sub theme Content **Evaluation activity** | Livelihood in our division Social services and their importance Roman Numerals (I,II, III, IV, V, VI, VII, VIII, IX, X, L, -----) Converting Hindu Arabic numerals to Roman numerals Converting Hindu Arabic numerals to Roman numerals e.g. Convert 42 into Roman numerals 42 = 40 + 2 = XL + II = XLIIConvert 15 into Roman numerals 15 = 10 + 5 = X + V  = XVAn exercise from MK old edition pg 44 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Social services and their importance****Roman numerals**Converting Roman numerals to Hindu Arabic numerals e.g. Change VIII to Hindu Arabic numerals VIII = 8Change XXIV to Hindu Arabic numerals XXIV = XX + IV = 20 + 4 = 24An exercise from MK old edition pg44 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Challenges in social services and their solutions**Definition Even numbers are numbers which are exactly divisible by 2. **Types of numbers** Even numbers e.g. 0, 2, 4, 6, 8, 10, 12, 14, …………..An exercise from MK 2000 Bk3 pg20 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Challenges in social services and their solutions**Definition of odd numbers: are numbers which are not exactly divisible by 2. **Types of numbers** Odd numbers e.g. 1, 3, 5, 7, 9, 11, 13, 15, …………..An exercise from MK 2000 Bk3 pg20 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Challenges in social services and their solutions****Operation on whole numbers**Addition of tens and ones vertically without carrying  1 1 add ones = 1 + 2 = 3+1 2 add tens = 1 + 1 = 2 2 3**Word problems** Ashabe had 32 mangoes, she picked 17 more mangoes. How many mangoes did she have altogether?Solution  3 2 mangoes + 1 7 mangoes  4 9An exercise from MK 2000 bk3 pg 40 and 41 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Addition with carrying (vertically)**e.g. 8 6 6 + 4 = 10 + 2 4 1 1 0**Word problems** Tushabe had 27 litres of milk. His mother gave him more 14 litres of milk. How many litres of milk did he have altogether?Solution 2 7 litres 7 + 4 = 11 + 1 4 litres 4 1 litres Exercise 3c from MK 2000 Bk3 pg 42 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Addition up to 4 place vales with and without carrying** e.g. Add **TH H T O**1 4 1 3 + 2 3 0 1 6 4 3**Word problems** A train carried 20 children, 23 men and 125 women. How many people did it carry altogether?Solution Children 2 0 Men 2 3 Women + 2 5 Altogether 1 68 people Exercise 3d from MK 2000 Bk3 pg43 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Addition using a number line**e.g. Add: 2 + 8 =  0 1 2 3 4 5 6 7 8 9 10 2 + 8 = 10Add: 5 + 3 =  0 1 2 3 4 5 6 7 8 9 10 5 + 3 = 8Exercise 4k from Mk old edition Pg 55 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Word problems** e.g. Sungura had 65 cows. He sold off 35. How many cows remained?soln 6 5 5 – 5 = 0­- 3 5 6 – 3 = 3 3 0 cows Exercise 4b from Mk 2000 bk3 pg49 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****More subtraction** e.g. 1 2 7 7 – 2 = 5­- 3 2 12 – 3 = 9 9 5 Exercise 4c from Mk 2000 Bk3 Pg50 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****More subtraction**e.g. Take away 53 from 91 8 9 11­- 5 3  3 8 Exercise 4d from Mk 2000 Bk3 Pg51 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Subtraction of 4 digit numbers** e.g. 3 6 4 2 ­ - 3 2 1 3 3 2 1Word problems e.g. on Pg 54 of MK 2000**Evaluation activity** Exercise 4e from Mk 2000 bk3 Pg 52 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Subtracting using a number line** e.g. 5 - 3 =   0 1 2 3 4 5 6 7 8 9 10 5 - 3 = 2An exercise from Trs resource book |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication table (x2)**1. Complete the table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No of pairs | 1 | 2 | 3 | 4 | 5 |
| No. of legs | 2 | 4 | 6 | 8 | 10 |

 3 4 3 x 2 6 8 6Exercise 5a from Mk 2000 Bbk3 Pg 55 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication x2** **Word problems** e.g. How many eyes do 5 boys have?Solution 5 x 2 = 10eyes Exercise 6e from Mk Old edition pg65 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication table (x3)**Complete the table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No of stools | 1 | 2 | 3 | 4 | 5 |
| No. of legs | 3 | 6 | 9 | 12 | 15 |

 1 4 4 x 3 = 12 X 3 3 x 1 = 3 4 2 3 + 1 = 4Exercise 5d from Mk 2000 Bk3 Pg58 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication x3** **Word problems** e.g. One book has 12 pages. How many pages do 3 similar books have?Solution  1 2 2 x 3 = 6 X 3 1 x 3 = 3 3 6 pages Exercise 5e from Mk 2000 Bk3 pg 58 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication table (x4)**Complete the table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No of cows | 1 | 2 | 3 | 4 | 5 |
| No. of legs | 4 | 8 | 12 | 16 | 20 |

 1 5 5 x 4 = 20 X 4 1 x 4 = 4 6 0 ( 4 + 2) = 6Exercise 5g from Mk 2000 Bk3 Ppg61 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication table (x6 and x5)**Complete the table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No of insects | 1 | 2 | 3 | 4 | 5 |
| No. of legs | 6 | 12 | 18 | 24 | 30 |

Multiply 1 2 3 3 x 6 = 18 X 6 2 x 6 = 12 7 3 8 (12 + 1) = 13 1 x 6 = 6 (1 + 6) = 7Exercise 5L from Mk 2000 Bk3 Pg 65 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication x6 Word problems** e.g. 1 kg of sugar costs 1200/=. What will be the cost of 6kg? 1 2 0 0 0 x 6 = 0 X 6 0 x 6 = 0 7 2 0 0 2x 6= 12 1 x 6 = 6 (6 + 6) = 7An exercise from Trs resource book  |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Soil****Multiplication x7** e.g. Multiply 2 3 3 x 7 = 21 x 7 2 x 7 = 14 1 6 1 (14 + 2) = 16Exercise 5n from Mk 2000 Bk3 Pg66 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Natural causes of challenges in our environment** 1. Complete the table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No of weeks  | 1 | 2 | 3 | 4 | 5 | 6 |
| No. of days  | 7 | 14 | 21 | 28 | 35 | 42 |

1. Word problems

e.g How many days are there in 3 weeks?Solution : 3 x 7 = 21 days An exercise from Trs resource book  |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Natural causes of challenges in our environment** **Multiplication x8** e.g. Multiply 3 2 2 x 8 = 16 x 8 3 x 8 = 24 2 5 6 (24 + 1) = 25Exercise 5p from Mk 2000 Bk3 Pg 67 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Natural causes of challenges in our environment**Complete the table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No of spiders | 1 | 2 | 3 | 4 | 5 | 6 |
| No. of legs | 8 | 16 | 24 | 32 | 40 | 48 |

How many legs do 2 spiders have?2x 8= 16 legsAn exercise from Trs resource book  |
|  | **Livelihood in our division** **Natural causes of challenges in our environment** **Word problems****An exercise book has 36 pages. How many pages do 9 exercise books have?**e.g. Multiply 3 6 6 x9 = 54 x 9 3x 9 = 27 32 4 (27 + 5) = 32**An exercise from teacher’s resource book.** |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Natural causes of challenges in our environment** **Multiplication table 10** e.g. Multiply 32 x 1012x10=12032x10=32048x10=48053x10=530Complete the table

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |

Exercise 5t from Mk 2000 Bk3 Pg 69 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Natural causes of challenges in our environment** **Word problems** Complete the table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No of girls  | 1 | 2 | 3 | 4 | 5 | 6 |
| No. of fingers | 10 | 20 | 30 | 40 | 50 | 60 |

How many toes do 5 boys have? 1 0 x 5 5 0 toes Multiplication table 11 E.g multiply 2 x 11 11X222Exercise from Mk Bk3 Pg 97 |
| Theme Sub-themeContent**Evaluation activity** | **Livelihood in our division** **Natural causes of challenges in our environment****Multiplication by 12**Complete the table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No of years  | 1 | 2 | 3 | 4 | 5 |
| No. of months  | 12 | 24 | 26 | 48 | 60 |

How many books are there in 3 dozens of books? 1 2 x 3 3 6 books An exercise from Trs collection  |
| Theme Sub-themeContent | **Livelihood in our division** **Changes in the environment through human activities** **Division of simple numbers** e.g. i) 36 ÷ 4 = 9 ii) 25 ÷ 5 = 5 iii) 15 ÷3 = 5 etc  |

**Term II 2016**

Topical breakdown

1. Number patterns and sequence
2. Finding missing numbers
3. Counting in twos, threes, fours, fives and tens
4. Completing tables – addition, subtraction, multiplication, division
5. Addition of magic square
6. Fractions
7. Naming fractions
8. Drawing fractions
9. Comparing fractions
10. Addition of fractions
11. Subtraction of fractions
12. Finding shaded and unshaded
13. Graphs
14. Pictographs
15. Bar graph
16. Drawing graphs

|  |
| --- |
| **P.3 MATHEMATICS LESSON NOTES TERM 2 2016** |
|  | Lesson I**Number facts and sequences** **Filling in the missing numbers** **Content: Counting in twos, threes, fours, fives and tens (ascending)**Examples1. 0, 2, 4, 6, \_\_\_, 10, \_\_\_, 14
2. 0, 3, 6, 9, \_\_\_\_, \_\_\_\_, 18
3. 4, 8, \_\_\_\_, 16, \_\_\_\_, 24, \_\_\_\_, 32
4. 0, \_\_\_, 10, 15, \_\_\_\_, 25, \_\_\_\_
5. 10, 20, 30, \_\_\_, 50, \_\_\_\_

An activity in MK bk3 pg84 |
| TopicSubtopic content**Evaluation activity** | Lesson 2Number patterns and sequenceFilling in the missing numbersCounting in twos, threes , fours , fives and tens in a ascending and descending order **Examples:**16 , \_\_\_ , 12 , \_\_\_\_\_ , 8 , 6 , \_\_\_ , 2 , 01. 9, \_\_\_, 3, 0
2. 60, \_\_\_\_, 40, \_\_\_\_, 20, 100

An activity MK bk3 pg85 |
| TopicSubtopic content**+****Evaluation activity** | **Lesson 3:** **Number facts and sequences** **Completing tables** **Filling in the missing numbers (tables of addition)** e.g.  b 3 c 8 +4 6 a  4 \_\_\_ b +10 4 \_\_\_\_  8    7 a=\_\_\_\_\_\_\_b=\_\_\_\_\_\_c=\_\_\_\_\_\_d=\_\_\_\_\_\_MK bk3 pg81  |
| TopicSubtopic content**Evaluation activity** | **Lesson 4****Number facts and sequences** **Completing tables** **Tables of subtraction** example  d 10 20 c 20- 14 a  b  19 a=\_\_\_\_\_\_\_b=\_\_\_\_\_\_\_c=\_\_\_\_\_\_\_\_d=\_\_\_\_\_\_\_ \_\_\_ \_\_\_\_ 5 15- 4 \_\_\_  9Written exercise |
| TopicSubtopic content**Evaluation activity** | **Lesson 5****Number facts and sequences** **Completing tables** **Tables involving multiplication and division** Example  21  9 = 7 x 2 = 14  d 8 7x 2 a b = 21 ÷ 7  = 3 d a=\_\_\_\_\_\_\_b=\_\_\_\_\_\_\_c=\_\_\_\_\_\_\_\_d=\_\_\_\_\_\_\_ 35  \_\_\_ \_\_\_\_ 5 15- 3 \_\_\_  10Written exercise |
| TopicSubtopic content**Evaluation activity** | **Lesson 6****Number facts and sequences** **Filling in the missing numbers** **Relationship between multiplication and division** Examples 12 ÷ 4 =  3 x 4 = 12 12 ÷ 3 = da=20÷4=a where a is 5b=20÷5=b where b is 4c=20÷2=a where c is 10d=20÷10=a where d is 2 10 c 2 20÷ 4 a 5 bAn activity from MK bk3 pg86 |
| TopicSubtopic content**Evaluation activity** | **Lesson 8****Number facts and sequences** **Filling in the missing numbers** **Sum at the centre of tables** Example The sum at the centre is 15. Find the missing numbers. e.g.  b 3  c 3 15 7 a   d  11  An activity from MK bk3 pg81 |
| TopicSubtopic content**Evaluation activity** | **Lesson 9 and 10****Number facts and sequences** **Filling missing numbers** **Completing magic square** Examples

|  |  |  |
| --- | --- | --- |
| 7 | a | 5 |
| 2 | 4 | c |
| b | 8 | 1 |

Magic sum = 7 + 4 + 1 = 12 b + 9 + 7 = 12 b + 9-9 =12-9 b = 3An activity from MK bk3 pg87  |
| TopicSubtopic content**Evaluation activity** | **Lesson 11****Fractions** **i)Naming fractions** **Definition**A fraction is a part of a whole. Figure words1 a whole½ a half1/3 a third ¼ a quarter1/5 a fifth 2/3 two thirds3/5 three fifth ii) writing fractions in figures 1. Three quarters = \_\_\_\_\_\_
2. Five tenths = \_\_\_\_\_\_\_
3. Two fifth = \_\_\_\_\_\_
4. A third = \_\_\_\_\_\_\_

A written exercise  |
| TopicSubtopic content**Evaluation activity** | **Lesson 12****Fractions** **Comparing fractions** **Comparing fractions using greater than or less than**  ½ 1/3  ½ is greater than 1/3An activity from MK BK3 pg99-100 |
| TopicSubtopic content | **Lesson 13****Fractions** **Comparing fractions** **Comparing fractions using symbols** i.e. >, < or = a) 1/10 < 1/9b) ¼ = ¼ c) 1/5 > 1/6 |
| TopicSubtopic content**Evaluation**  | **Lesson 14****Fractions** **Shaded and unshaded fractions**Examples

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

1. Shaded fraction = ¾
2. Unshaded fraction = ¼

1. Shaded fraction = 2/5
2. Unshaded fraction = 3/5

An activity from MK bk3 pg97 |
| TopicSubtopic content**Evaluation**  | **Lesson 15****Fractions** **Drawing and shading fractions** **Examples** Draw and shade the fractions below ¾ 1/2An activity from pg98 |
| TopicSubtopic content**Evaluation**  | **Lesson 16****Fractions** **Addition of fractions** **Examples** a) 1 + 2 = 1 + 2 = 3 4 4 4 4b) 5 + 4 = 5 + 4 = 9 10 10 10 10Word problems c) Find the sum of 7/15 and 4/15 7 + 4 = 7 + 4 = 11 15 15 15 15d)  1 + 2 + 3 = 1 3 3 3An activity from MK bk3 pg104 and 103. |
| TopicSubtopic content**Evaluation**  | **Lesson 17****Fractions** **Subtraction of fractions** **Examples**  3 - 2 = 3 - 2 = 1 10 10 10 10Word problems Find the difference between 13/16 and 9/16. 13 - 9 = 13 - 9 = 4 16 16 16 16A boy had 5/6 of a cake. He ate 2/6 of it. What fraction remained? 5 - 2 = 5 - 2 = 3 6 6 6 6An activity from MK bk3 pg108 |
| TopicSubtopic content**Evaluation**  | **Lesson 18****Fractions** **Finding number of fractions in a whole** **Examples** 1. How many halves are in 2 wholes?

 ½ ½ ½ ½ = 4 halves An activity from teachers’ collection |
| TopicSubtopic content | **Lesson 19****Fractions** **Finding number of fractions in a whole**  How many quarters in 2 wholes?  ¼ ¼ ¼ ¼ = 8 quarters  ¼ ¼ ¼ ¼ How many thirds are in three wholes?  =9 thirds  |
| TopicSubtopic content**Evaluation**  | **Lesson 20****Fractions** **Fractions of a group** **Examples** What is a ½ of 8?**Note:** The word ‘of’ changes to multiply½ of 8 = ½ x 8 = 1 x 8 = 8 = 8÷2 = 4 2 2An activity from teachers’ collection  |
| TopicSubtopic content**Evaluation**  | **Lesson 21****Graphs** **Pictographs (**with a scale and without a scale)**Example**The pictograph below shows the number of books given to the five best pupils in different games. Study it and use it to answer the questions below.  = 2 books

|  |  |
| --- | --- |
| Moses |    |
| Alex |   |
| Jose |    |
| Teo |  |
| Harna |      |

**Questions**:a) What is the scale on the graph?b) How many books has Moses? 3 x 2 = 6 books An activity from MK bk3 pg115 |
| Topic Subtopic Content Evaluation activity  | **Graphs**  Bar graphs Example 6543210 Football Volleyball netball tennis 1. How many pupils play football?
2. Which game is played by most children?
3. How many more pupils play football than netball?

Activity from MK bk 3 pg 113-115  |
| Topic Subtopic Content Evaluation activity | Lesson 24 Graphs Pictographs Example: the pictograph below shows the number of books given to five best pupils in different games. Study it and use it to answer questions that follow

|  |  |
| --- | --- |
| Moses  |  |
| Alex  |  |
| Josephine  |  |
| Teo  |  |
| Haruna  |  |

  Stands for 10 books a)how many books did Josephine get? b) how many books did Teo get? c) How many more books did Haruna get than Alex? d) Who has the least number of books? Mk 2000 MT bk 3 pg 110-111 |
| Topic Subtopic Content Evaluation activity  | Lesson 25 Graphs Pictographs Drawing pictographs Example: five girls were told to pick flowers from the garden and each picked the follow Rose picked 6 flowers Jamila picked 3 flowers Annet picked 2 flowers Sarah picked 6 flowers **Questions** 1. Make a picture graph and show the information above
2. Which two girls picked the same number of flowers?

Activity in MK 2000 MTC Bk 3 pg 112 |

 **SIR APOLLO KAGGWA SCHOOLS**

**MATHEMATICS - 2016**

**Breakdown for term III 2016**

1. Geometry
2. Naming and drawing shapes
3. Counting shapes
4. Measures
5. Days of the week
6. Telling time
7. Months of the year
8. Length
* Addition of metres and centimeters
* Subtraction of metres and centimeters
* Changing from metres to centimeters
* Changing from centimeters to metres
* Finding perimeter and area
1. Capacity
* Changing from ltires to centiliters
* Changing from centiliters to litres
* Addition of litres and centilitres
* Subtraction of litres and centiliters
1. Weight
* Estimation of weight
* Comparing weight
* Changing from kilograms to grams
* Changing from grams to kilograms
* Addition of kilograms and grams
* Subtraction of kilograms and grams
1. Money
* Addition of money
* Subtraction of money
* Shopping
* Multiplication of money
* Division of money
1. Algebra
* Finding unknown
* Addition
* Subtraction
* Multiplication
* Division
* Word problems
1. Collecting like terms

**SIR APOLLO KAGGWA SCHOOLS**

**Term III 2016**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TopicSubtopic content**Evaluation** **Activity**  | **Lesson 1****Geometry** **Types of shapes** **Definition** Geometry is a branch of mathematics that deals with the study of shapes and their properties. Types of shapes

|  |  |  |
| --- | --- | --- |
| **Shape** | **Name** | **Properties**  |
|  | Square | * All sides are equal
* Has 4 sides
 |
|  | Rectangle | * Two opposite sides are equal
* Has 4 sides
 |
|  or  | Trapezium | * Two opposite sides are parallel
* Has 4 sides
 |
|  | Pentagon | * Has 5 sides
 |
|  | Rhombus | * All sides are equal
* Has 4 sides
 |

An activity from Understanding Mathematics BK3 pg63 and MK bk3 p117. |
| TopicSubtopic content**Evaluation activity**  | **Lesson 2****Geometry** **Counting shapes** **Example** 1. Count the rectangles

= 3 rectangles 1. Count the triangles

= 3 triangles 1. Count the squares

= 3 squares An activity from MK bk3 pg118 |
| TopicSubtopic content**Evaluation****Activity**  | **Lesson 3****Measures** **Days of the week** **Listing the days of the week** SundayMondayTuesdayWednesdayThursdayFridaySaturday**Questions**1. What is the first day of the week?
2. What is the last day of the week?
3. Which day of the week comes after the first day of the week?
4. Name the day of the week that comes before a day Muslims go for prayers?

**An activity from MK Bk 3 Pg 126** |
| TopicSubtopic content**Evaluation activity**  | **Lesson 4****Measures** **Changing weeks to days** **Examples** How many days are there in 2 weeks?1 week has 7 days 2 weeks have (2 x 7)= 14 days An activity from MK bk3 pg126 |
| TopicSubtopic content**Evaluation**  | **Lesson 5****Measures** **Changing days to weeks** **Example** Convert 21 days to weeks Solution 7 days make a week  21 days make 21 = 3 weeks  7An activity from teachers’ own collection  |
| TopicSubtopic content**Evaluation**  | **Lesson 6****Measures** **Completing tables about days and weeks** **Examples**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Weeks** | 1 | 2 | 3 | 4 |  |  | 7 |
| **Days** | 7 | 14 |  |  | 35 | 42 |  |

 1 x 7 2 x 7 35÷ 7 **1 - 7 days 14 5**An activity from MK bk3 pg126 |
| TopicSubtopic content**Evaluation**  | **Lesson 26****Measures** **Months of the year with their days****Listing months of the year**1. January - 31
2. February - 28/29
3. March - 31
4. April - 30
5. May - 31
6. June - 30
7. July - 31
8. August - 31
9. September - 30
10. October - 31
11. November - 30
12. December - 31

Formulated questions by the teacher Mk bk3 pg138 |
| TopicSubtopic content**Evaluation**  | **Lesson 9****Measures** **Changing years to months** **Example**There are 12 months in a year. How many months are in 2 years?1 year has 12 months 2 years have (2 x 12)  = 24 months Mk bk3 pg139 |
| TopicSubtopic content**Evaluation**  | **Lesson 28****Measures** **Changing months to years** **Example** How many years are in 36 months? (use repeated subtraction) 3 6 - 1 2 (1 year) 2 4  - 1 2 (1 year) 1 2 - 1 2 (1 year) 0 0∴ 3 years are in 36 months. An activity from teacher’s own collection |
| TopicSubtopic content**Evaluation**  | **Lesson 10****Measures****Completing tables about months and years** **Example** Complete the table below

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Years** | 1 | 2 | 3 | 4 | …….. |
| **Months**  | 12 | 24 | 36 | ……. | 60 |

 2 x 12 36 ÷ 12 = 24 months 3 yearsAn activity from MK bk3 pg139 |
| TopicSubtopic content**Evaluation**  | **Lesson 11****Measures** **How old: (Finding one’s age)****Example**Mike was born in 1989. How old was he in 1997? 1997 - 1989 0008 years Mike was 8 years old An activity from MK bk3 pg140 |
| TopicSubtopic content**Evaluation** | **Lesson 13**Measures Telling time Telling time in hours Eg. Tell the time  It is 12 o’clock 01 12:00MK bk 3 pg 127  |
| TopicSubtopic content**Evaluation** | **Lesson 14**Telling time Telling time in a half past e.g. tell the time  It is a half 8 o’clock or 8:30MK bk 3 pg 129  |
| TopicSubtopic content**Evaluation** | **Lesson 15** Telling time Telling time using a quarter past e.g. tell the time  it is a quarter past 7 o’clock or 7:15MK bk 3 pg 128-129 |
| TopicSubtopic content**Evaluation** | **Lesson 16**  Telling time Telling time using a quarter to e.g. tell the time  it is a quarter to 12 o’clock or 11?45 MK bk 3 pg 132  |
| TopicSubtopic content**Evaluation** | **Lesson 17**Measures Telling time Telling time in minutes past e.g. it is 20 minutes past 12 o’clock MK 2000 bk 3 pg 133-134 |
| TopicSubtopic content**Evaluation** | **Lesson 18**  Measures Telling time Telling time in minutes to e.g. it is 5 minutes to 3 o’clock or 2:55MK 2000 MTC bk 3 pg 136-137  |
| TopicSubtopic content**Evaluation** | **Lesson 19**Telling time Word problem e.g change 2 hours to minutes 2 hours = minutes 1hour = 60 minutes 1 hour = 60minutes or 2 hours = 60 x 2 = 120 minutes 2 hours = 60 x 2  60  X2 120 Convert 3 hours to minutes Change 4 hours to minutes How many minutes are there in 5 hours?  |
| TopicSubtopic content**Evaluation** | **Lesson 20**  Telling time Word problem Changing from minutes to hours e.g. convert 120 minutes to hours 120 minutes = hours 60 minutes = 1 hour 120 minutes = 120 ÷ 60  120 = 2hours  60 Change 360 minutes to hours Convert 120 minutes to hours  |
| TopicSubtopic content**Evaluation** | **Lesson 21**Measures Drawing and showing on a clock face Represent e.g. a half past 3 o’clock  a quarter to 8 o’clock  a quarter past 2 o’clock MK 2000 MTC bk 3 pg 137  |
| TopicSubtopic content**Evaluation**  | **Lesson 22****Measures** **Money** **Recognition of money** Notes Coins1000 note 50 coin50,000 note 100 coins5000 note 200 coins10000 note 500 coins20000 noteAddition of money1. (2)

Shs 200 shs 1000 + shs 500 + shs 100Shs 50 shs 1000Shs 250 shs 500 + shs 100  Shs 1600An activity from MK bk3 pg176 and 178 |
| TopicSubtopic content**Evaluation**  | **Lesson 23****Measures** **Money** **Addition of money (word problems)**Examples I had 100 shillings. My father gave me 50 shillings more. How much money do I have altogether?I had 100 shillings Father gave me + 50 shillings I have 150 shillings Mk bk3 pg178 |
| TopicSubtopic content**Evaluation**  | **Lesson 24****Measures** **Money** **Subtraction of money (word problems)** ExampleMukooza had shs 350. He gave away shs 100. How much money did he remain with?Shs 350 - shs 100 Shs 250Mk bk3 pg180 |
| TopicSubtopic content**Evaluation**  | **Lesson 25****Measures** **Money** **Shopping** Example The table below shows the price list in Mrs. Yiga’s shop. Use it to answer the questions that follow

|  |  |
| --- | --- |
| **Item** | **Price** |
| A book | shs 100 |
| A pencil | shs 250 |
| An egg | shs 300 |
| A bar of soap | shs 500 |
| A kg of rice | shs 800 |
| A pen | shs 200 |

**Questions**1. How much does a pencil cost?
2. What is the cost of an egg and a pen?

Mk bk3 pg181 |
| TopicSubtopic content**Evaluation**  | **Lesson 26****Topic: Measures****Subtopic: Money** **Content: Shopping with pictorial** Example A bag an apple A pencil a book  Shs 500 shs 800 shs 100 shs 3001. What is the cost of 2 pencils?

Shs 100 x 2 = shs 2001. What is the cost of 3 bags and 2 books?

Bags = 3 x 500 = shs 1500Books = 2 x 300 = + shs 600 Shs 2100From understanding mathematics bk 3 pg 73. |
| TopicSubtopic content**Evaluation**  | **Lesson 27****Measures** **Money** **Division of money** ExamplesDivide shs 1200 by 3 0400 3 1200 ∴ shs 1200 ÷ 3 = shs 4000 x 3 = 0 124 x 3 = 12 00MK bk3 pg187 |
| TopicSubtopic content**Evaluation**  | **Lesson 28****Measures** **Money** **Word problems involving division of money** ExampleMr. Kasule had shs 800. He shared it equally between his two children. How much did each child get? 400 2 8004 x2 = 8 0002 x 0 = 00 00∴ Each child gets shs 400Mk bk3 og187 |
| Topic Subtopic ContentEvaluation  | **Lesson 29**  Measures Length Units for length e.g centimeter , metres, decimeter, hectometers , kilograms changing from metres to centimeter e.g. convert 3 metres to centimeters 3m = cm 1m = 100cm 3m = 100 100 +100 300cm Activity in MK 2000 Mtc bk 3  |
| Topic Subtopic ContentEvaluation | **Lesson 30** Measures Changing from centimeters to metre Example Change 200cm to metres 100cm = 1 m 200cm = 200cm = 2metres  100Activity MK bk 3  |
| Topic Subtopic ContentEvaluation  | **Lesson 31**Measures Addition of metres and centimeters Examples Add;  M cm  2 45+ 6 36 8 81Activity in Mk 2000 Mtc bk 3 pg 14 |
| Topic Subtopic ContentEvaluation  | **Lesson 32** Measures Word problem involving addition of metres and centimeters Example; A shopkeeper has 2m 38cm of nylon cloth and 6m 30cm of cotton cloth. What is the total length of the pieces of cloth.  M cm  4 38+ 6 30 10 68 Activity in MK 2000 bk 3 pg 148  |
| Topic Subtopic ContentEvaluation  | **Lesson 33**Measures Subtraction of metres and centimeters Example M cm  6 50- 4 30 2 20 Activity Mk 2000 MTC bk 3 pg 149  |
| Topic Subtopic ContentEvaluation  | **Lesson 34** Measures Word problem involving subtraction of metres and centimeters Example Musa had a string of 8m 47cm. he cut off 2m 16cm. what length of the string was left? M cm  8 47- 2 166 31Activity in Mk bk 3 pg 150  |
| Topic Subtopic ContentEvaluation  | **Lesson 35**Measures Finding perimeters Perimeter Definition: perimeter is the total distance around any give figure Example Find the perimeter of the figure below  4cm  2cm P = s+s+s+s4cm +2cm+4cm+2cm 6cm +6cm =12cm Activity in MK bk 3  |
| Topic Subtopic ContentEvaluation | **Lesson 36**  Measures Word problems involving finding perimeter of a shape Example A square garden measures 12m each side. Find its perimeter  12m 12m 12m 12mP= s+s+s+s = 12m+12m+12m+12m = 24m + 24m  = 24m + 24m 48mActivity in MK MTC bk 3 |
| Topic Subtopic ContentEvaluation | **Lesson 37**Measures Finding area Example ; counting squares Area = number of square units 12sq units. Activity in MK MTC bk 3 pg 152  |
| Topic Subtopic ContentEvaluation | **Lesson 38**  Measures Finding area of the shaded part Example; area = number of sq units  = 15 sq. units

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Activity in MK MTC bk 3 pg 155  |
| Topic Subtopic ContentEvaluation | **Lesson 39**Measures Finding the area by multiplying Example; area = number of sq. units  = (3 squares across)x(2sqaures down)

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |

 = 3 x 2  = 6 squares units or 6 sq. units Example 2; area = length x width  8cm 8cm x 3cm  24cm2 or 24 sq. centimeters  3cm Activity in MK bk 3 pg 155-156  |
| Topic Subtopic ContentEvaluation | **Lesson 40** Measures Word problem involving finding area Example Mary’s note book is 4cm long and 3cm wide Find its area  4cm area = L x W = 4cm x 3cm  3cm = 12cm2Activity in Mk MTC bk 3 pg 157-158  |
| Topic Subtopic ContentEvaluation | **Lesson 41**Capacity Energy in our sub county Example: How many ½ litres make a litre. ½ litre + ½ litre = 1 litre Therefore, 1 litre = 2 halves New MK bk 3 pg 161  |
| Topic Subtopic ContentEvaluation | **Lesson 42**Capacity Changing litres to centilitres1 litre = 100cl 3 litres = (3x100)cl 3litres = 300cl Teachers collection  |
| Topic Subtopic ContentEvaluation | **Lesson 43** Capacity Changing centiliters to litres Example: How many litres are in 500cl? 1 litre = 100cl ? = 500cl 500cl litres 100cl = 5 litres Teacher’s collection  |
| Topic Subtopic ContentEvaluation | **Lesson 44**Capacity Adding litres and centiliters Example; Add;  1 5 0 litres + 3 5 0 litres  5 0 0 litres Example 2 Add;  Litres centiliters  3 25+2 60 5 85 Teachers’ collection  |
| Topic Subtopic ContentEvaluation | **Lesson 45**Capacity Word problem involving addition of litres. Mr. Lubega made 24 litres of juice and Kato made 78 litres. How much juice did the two men make?  2 4 litres +7 8 litres  10 2 litres Therefore, they made 102 litres of juice New MK nk 3 pg 163  |
| Topic Subtopic ContentEvaluation | **Lesson 46**Capacity Subtraction of ltires and centiliters Example:  2 4 7 litres * 2 5 litres

 2 2 2 litres  |
| Topic Subtopic ContentEvaluation | **Lesson 47**  Measures Weight Definition : weight is the lightness or heaviness of an object. Units measuring weight Examples Kilograms Grams Hectogram Changing kilogram to grams Example Change 3kg to grams 1kg = 1000g 1kg = 1000g 3kg = 1000g 3kg = 1000g  1000g x 3  1000g 3000g + 3000g Activity in MK MTc bk 4  |
| Topic Subtopic ContentEvaluation | **Lesson 48** Measures Weight Changing from grams to kilograms Example Change 2000g to kilograms 1000g = 1kg 2000g = 2000g kg = 2kg  1000g  |
| Topic Subtopic ContentEvaluation | **Lesson 49** Measures Weight Comparing weight Who is heavier? Example  Activity in MK MTC bk 3 pg 168  |
| Topic Subtopic ContentEvaluation | **Lesson 50** Measures Weight Addition of kilograms and grams Example  Kg g  4 250+2 3006 550Activity in MK bk 3 pg 171  |
| Topic Subtopic ContentEvaluation | **Lesson 51**  Measures Weight Word problem involving addition of kilograms and grams Example Kato weighs 17kg 280 g. his sister weighs 20kg 250g. find their total weight.  Kg g  17 280+20 250 37 530Activity in MK bk 3 pg 172  |
| Topic Subtopic ContentEvaluation | **Lesson 52**Measures Weight Subtraction of kilograms and grams Example  Kg g  9 650-7 200 2 450Activity in Mk bk 3 pg 173 |
| Topic Subtopic ContentEvaluation | **Lesson 53**Measures Weight Word problems involving subtraction of kilograms and grams Example Akot had 5kg 750g of salt. She gave 3kg 250g to her friend. How much salt was left?  Kg g  5 750 -3 250 2 500Activity in Mk bk 3 pg 174 |
| Topic Subtopic ContentEvaluation | **Lesson 54** Algebra Finding missing numbers Example  + 3 = 8  + 3 – 3 = 8 – 3  + 0 = 5 = 5Activity Mk bk 3 pg 192  |
| Topic Subtopic ContentEvaluation | **Lesson 55** Algebra Word problems involving algebra Example Nakito had some books. She was given 12 more books. Now she has 20 books. How many books had Nakito had at first?  + 12= 20  + 12 – 12 = 20 – 12  + 0 = 8 = 8Nakito had 8 books first Activity MK bk 3 pg 192  |
| Topic Subtopic ContentEvaluation | **Lesson 56** Algebra Finding unknowns involving subtraction Example M – 5 = 3 M – 5+5= 3+5M – 0 = 8M = 8 Activity in Mk mtc bk 3 p 194  |
| Topic Subtopic ContentEvaluation | **Lesson 57**Algebra Word problems involving subtraction of unknowns Example Father had some mangoes. He gave 5 mangoes to his son. He remained with 7 mangoes. How many mangoes did he have at first?  -5 = 7  - 5+5= 7+5 - 0 = 12 = 12He had 12 mangoes at first. Activity in Mk mtc bk 3 pg 194  |
| Topic Subtopic ContentEvaluation | **Lesson 58** Algebra Finding missing numbers in multiplication Example  X 2 = 10 x 2÷2= 10÷2 x 1 = 5 = 5 Activity in MK bk 3 pg 196  |
| Topic Subtopic ContentEvaluation | **Lesson 59** Algebra Finding missing numbers involving division Example6 ÷ =3  = 6÷3 = 2 Activity in Mk mtc bk 3 pg 197  |
| Topic Subtopic ContentEvaluation | **Lesson 60**Algebra Word problems involving finding missing numbers with divisionExample Auma had some bananas. He shared them among 6 boys. Each boy got 8 bananas. How many bananas had Auma had before?  ÷ 6 = 8  =8x6 =48 Auma had 48 bananas before Activity in Mk mtc bk 3 pg 198 |
| Topic Subtopic ContentEvaluation | **Lesson 61**Algebra Collecting like terms Example Collect like terms 3 cups + 2 books + 4 cups + 3 books 3cups + 4 cups + 2 books + 3 books  7 cups + 5 books Activity in MK mtc bk 4  |