## P.6 MATHEMATICS SCHEME TERM 1

WK	PD	TOPIC	SUB-TOPIC	SUBJECT COMP.	LANG. COMP.	CONTENT	METHOD	ACTIVITIES	T/LAIDS	REF	REM
1	1	Set concept	Equal and equivalent sets	The learner; Defines a set  Describes equal equivalent sets  Gives examples  Draw symbols for equal equivalent sets	The learner; Reads, writes, pronounces and spells the words Equal Equivalent Equator Same Number Demand Objects	A set is a collection of well defined objects  Equal and equivalent sets  Equal sets are sets with same number of elements which are exactly the same  The symbol of Equal sets is "="  Equivalent sets are sets with the same number of elements but with different elements.  The symbol for equivalent sets is "	Explanation  Guided discussion  Demonstrati on	Identifying objects  Sorting objects  Comparing objects	Leaves Stones Bottle tops Bean seeds	New MK Primary MTC books page 1 – 2	
New	2		Unequal and non-equivalent sets	Defines an equal and non equivalent sets  Compare unequal sets  Compare non equivalent sets  Examples of sets mentioned above	The leaner; Reads, writes, pronounces and spells unequal, non equivalent sets	Unequal sets Unequal sets are sets with the same members but different number of members .  Symbols of unqual is ≠  Non equivalent sets These are sets with different member of elements and of different kind .  The symbol is ◄/▶	Explanation Guided discussion  Brian storming  Guided discovery	Identifying objects  Comparing sets	Stones Bottle tops	Fountain book page 1 – 3 Understanding MTC book 6 pg.1	
Note		ial sets ar	e sets with sa	* :	fferent number of elements.		T =	T	Τ.	1	
	3	Set Concept	Universal set	The learner; Defines universal set  Describes universal set  Draws the symbol for universal set  Identifies and list elements in universal set	The learner; Reads, writes, spells and pronounces universal set, symbol elements	Universal sets- This refers to all members (elements) that belong to the given sets  The symbol is " $\sum$ "  Examples Given that set Q =(All pupils in P.6)  Represent this on a venn diagram $Q=(\sum)$ Girls in P.6  All pupils in P.6	Explanation  Guided discussion  Problem solving	Identifying sets  Comparing sets	Bottle tops  Bean seeds	Fountain MTC book 6 page 2-3	

	4		Intersection and union sets	The learner; Defines intersection and union set  Identifies elements in intersection and union set	The learner; Reads, writes, pronounces and spells union intersection set	Intersection set - A set of elements common to two or more sets  Union set - A set of elements that contains two or more given sets.  The symbol for intersection set is "	Explanation  Guided discovery  Brain storming	Identifying objects  Listening objects	A chart showing objects on a universal set	Understanding MTC book 6 page 4 – 7	
	5	Set concept	Complement of sets	The learner; Defines complement of sets  Identifies elements of complement of sets  Draws and shades regions of complement  Lists elements in the regions of complement	The learner; Reads, writes, spells and pronounces complement, shade, identify	Complement of sets -A complement of a set means members of the universal set which do not belong to any of the given regions.  The symbol of complement of sets is "   " e.g. A¹ means complement of A. Describe the shaded region  P  A B  Shade (A U B)¹	Guided discussion Group work Explanation	Identifying given sets  Shading regions of complement  Listing elements in required regions	Balls Cups Plats Papers Oranges Mangoes	New MK book 6 page 8 – 9 Functional MTC book 6 page 4 – 5	
2	1		Difference of sets	The learner; Identifies members in given sets  Lists members under difference of sets in given sets  Describes shaded	The learner; Reads, writes, spells and pronounces the words like difference belong, found not members	If set $P = (a, b, c, d)$ (e) and $Q = (d)$ (e) $f, g, h$ )  Find $(P - Q)$ ( $P - Q$ ) = $(a, b, c)$ $P - Q$ or $P$ only or $Q^1$ .	Guided discussion Group work	Identifying given sets Describing shaded regions	A chart showing different sets	MK book 6 page 11-13- 15	

			regions		i) X - Y = (1, 2, 7) ii) n (Y - X) Y - X = (4,5) n (Y - X ) = 2  Activity Describe shaded regions P Q  X Y	Explanation	Listing elements in required regions			
2	Set concept `	Sub sets	The learner; Defines sub sets Forms subsets Writes the symbol of subsets Finds number of subsets	The learner; reads, writes, spells and interprets the new words subsets form, symbol	A subject is a small set got from the big set (universal set)  The symbol is "C"  Example Set A = $(0, 1, 2, 3, 4)$ B = $(1, 2, 3)$ Describe sets A and B A = $(0, 1)$ ② ③ 4) B = $(1)$ ② ③ 1	Explanation  Guided discussion  Guided discovery	Identifying elements  Listening elements	Balls Plates Cups Stones	MK book 6 page 18 – 19 Fountain book 6 page 13 – 14	

3		Forming subsets	The learner; Forms subsets Gives the numbers of subsets	The learner; Reads, pronounces, writes and spells the words Member Elements Brackets Empty			titself are subsets of every subsets of every subsets empty set ends with a set in List of subsets $ \{\ \} $ $ \{\ \},\ \{a\},\ \{a\},\{a\},\{b\},\{a,b\} $	tself.  No. of subsets  1	Explanation  Guided discovery  Group work	Forming subsets  Giving number of subsets	A chart showing formation of subsets	Functional MTC book 6 page 8 – 9 Fountain book 6 page 13 – 14
4		Finding numbers of subsets ad proper subsets	The learner; Finds the number of subsets  Finds the number of proper subsets	The learner; Reads, pronounces and spells words Subsets proper number	2 <sup>n</sup> = 8 ②n = ②3 n = 3	2 8 2 4 2 2 1 1 How does it h	ow many elements does it h	ave?	Explanation Guided discovery Group work	Finding number of subsets and proper subsets	A chart showing subsets and proper subsets	MK book 6 page 20 – 12 Functional MTC book 6 page 9-10 and 15 – 18
5	Set concept	Drawing and representing information on a venn diagram	The learner; Identifies elements in the sets  Puts the information on the venn diagram  Draws a venn diagram and put information on the venn diagram	The learner; Reads, pronounces, spells and writes the words information draw number region elements		n(B)=15 and nn diagram \(\sum = 19\) n(B)=15 \(\) 9	n(A ∩ B)=6		Problem solving  Group work  Guided discovery	Find number of elements  Fill information on venn diagrams	A chart showing number of elements	MK book 6 page 22 – 25

3	1	Use of venn diagrams to solve problems	The learner; Read and interpret questions  Forms equations  Solves equations	The learner; Reads, writes, pronounces and spells words  Equation Solve	There are 60 pupils in a class. 30 pupils like Maize (M), 40 pupils like cassava (C) and 7 pupils like both how many pupils like i) Both cassava and maize?  ii) Cassava only?  iii) Maize only? $ \frac{\sum = 60}{M = 30} $ $ \frac{\sum = 60}{C = 40} $ $ \frac{30 - y}{30 - y} = \frac{30 - y}{40 - y} $ $ \frac{40 - 1}{n(M n C)} $ $ y $ $ 30 - y + y + 40 = y = 60 $ $ 30 + 40 - y = 60 $ $ 70 - y = 60 $ $ 70 - 70 - y = 60 - 70 $ $ \frac{y}{10} = \frac{10}{1} $ $ \frac{y}{10} = \frac{10}{1} $	Problem solving  Guided discussion  Explanation	Drawing venn diagrams  Find those who like both  Forming equations	A chart showing number of elements solving for unknown or those who like both	Fountain book 6 page 16 – 18 MK primary book 6 page 8 – 9	

2	Set concept	Probability	The learner; Identifies coins  Defines probability  Toss and find total possibilities (sample space)  State the formation for finding probability	The leaner; Reads, pronounces, spells and writes the new words Coins Probability Sample space Toss e.t.c.	Probability This is the meansure of chance  Probability = $\frac{n(\text{Events})}{n(\text{sample space})}$ or $\frac{n(\text{Sample space})}{n(\text{Sample space})}$ Probability = $\frac{n(E)}{n(S)}$ Examples  Given that set P = (1, 2, 3, 4, 5) . find the probability of picking a number less than four  Sample space = (1, 2, 3, 4, 6) = 5  Expected events = (1, 2, 3) = 3  Probability = $\frac{n(E)}{n(S)}$ or	Guided discovery Group work Brain storming	States the formula  Finds probability	Coins  Dice  Letter cards	Fountain book 6 page 19 – 23 MK book 6 page 26 – 27	
3	Whole numbers	Place values and values	The learner; Identifies digits according to their place values  Tells place values of digits of members of whole numbers of decimals	The learner; Reads, writes, spells and pronounces the words  Place values Values Millions Thousands Hundreds Tens Ones	Place values and values A place value Shows the position of the digit in a given number  A value is a product of a digit and its place value  Value = Digit x place value  Activity Find the place value of eah digit in 2 1 3 4 6 7 5	Problem solving  Explanation  Guided discussion	Study place values  Find values  State place values	A chart showing place values and values	Fountain page 25 -28 MK book 6 page 34 – 35	
4	Whole numbers	Expanding numbers	The learner; expands numbers using values  Expands numbers using place values  Expands numbers using powers	The learner; reads, writes, spells and pronounces words Expands values numbers powers exponents	Expanding numbers using place values  Expand 2436 using place values  TH H T O = (2x1000)+(4x100)+discovery  3 4 3 6 (3x10) +(6x1)  Expanding numbers using values  TH H T O  4 6 7 8  Tens = 7 x 10 = 70  Hundreds = 6x100 = 600  Thousands = 4 x 1000 = 4000  4 6 7 8 using values  4000 + 600 + 70 + 8	Group work  Guided discovery  Brain storming	Identifying place values  Expanding numbers	Abacii Oranges Cups straws	MK book 6 page 36 – 37 Functional MTC book 6 page 20 – 21 Understanding MTC book 6 page 25 – 27	

	5		Writing figures in words	The learner; Identifies numbers Identifies place values Writes in words	The learner; Reads, spells and writes places values, words	NOTE Show all the place values of each digit  Add millions, thousands units  Write 43 287 in words  Thousands Units 43 287  48,287 = Forty three thousand two hundred eighty seven	Brain storming Guided discovery Group work	Writing in words  Reciting multiplication tables	A chart showing place values of values	MK book 6 page 38 – 39 Fountain book 6 page 29 – 30	
4	1		Writing words in figures	The learner' Identifies the place values of each digit Writes wholes and decimals in words	The learner; Reads, spells, pronounces and writes words Whole Decimals Number	Five tenths 0.5  Thirty six and four tenths  Thirty six = 36 Four tenths = +0.4 36.4  Writing decimals in words  Write 4 . 8 in words  4 Four +0.8 eight tenths 4.8 — Four and eight tenths	Problem solving  Guided discussion	Writing in words  Writing words in figures	A chart showing values and place values of numbers	MK book 6 page 44 – 46	
	2	Whole numbers	Rounding off whole numbers and decimal numbers	The learner; Identifies the place value required  Round off whole numbers  Round off decimal numbers	The learner; Reads, spells, pronounces and writes round, off, decimal, number	Round off 4783 to the nearest hundreds  TH H T O  4 7 8 3  + 1  4 8 0 0  Round off 39.95 to the nearest tenths  T O THHTH 3 9 9 5  +1  40 0  ∴ 39.95 = 40.0	Problem solving Guided discussion Brain storming	Recitation of multiplication tables Rounding off	Chalk board illustration	Understanding Mathematics book 6 page 34 – 35 MK book 6 page 47 – 48	
	3		Roman numerals	The learner; Identifies the key Roman numerals  Conerting Roman numerals to Hindu Arabic numbers  Writes Hindu Arabic numerals to Roman numerals	The learner; Reads, spells, pronounces and writs words: Arabic Number Romans Numerals	Change 25 to Roman Numerals 25 = 20 + 5 = xx + v = xxv  Change XLIV to Hindu Arabic XLWZ = XL + IV = 40 + 4 = 44	Group work  Brain storming  Guided discovery	Recitation of Roman numerals	Chalk board illustration	MK book 6 page 49 – 52	

	4	Operation on numbers	Addition of Numbers	The learner; Identifies digits  Arranges the digits according to their place values  Adds figures correctly  Regrouping	The learner; Reads, spells, writes and pronounces the word Add Total Altogether	Addition of numbers Addition mean total, altogether plus (+), gain and increase  2 1 2 3 4 6 7  + 2 1 4 4 2 1  2 3 3 7 8 8 8	Question and answer Guided discussion Group work	Recitation of multiplication tables	Chalk board illustration	MK book 6 page 55 – 56	
	5		Subtraction	The learner; Subtracts whole numbers Word problem solving Subtractions	The learner; Reads, spells, writes, subtract, problem word	Subtract 1 2 0, 186 - 20, 123 100, 063  A diary processed 6,500.650 litres of milk and sold 5,650,445 6,500,650 - 5,650,945 849,705  849,705 litres	Problem solving  Guided discussion  Explanation	Recitation of multiplication table	Chalk board illustration	MK book 6 page 57-58	
5	1		Multiplication	The learner; Multiplies numbers  Arranges digits according to their place values  Get the sum	The learner; Reads, spells, pronounces and writes word Multiply Times, Of	Multiply 143 x 18  143  x 18  1144  + 1430  2574  Multiply 1345  x12	Problem solving  Guided discussion  Explanation	Recitation of multiplication table	Chalk board illustration	MK book 6 page 59 - 60	
	2		Addition and Multiplication of numbers	The learner; Identifies operations  Multiplies using added addition  Addition of mixed operations	The learner; Reads, spells, pronounces and writes words Multiply Mixed Operation	Simplify: 3 x 4 + 5 (3x4) + 5 = 12 + 7 3 x 4 = 4 added 3 times = 4 + 4 + 4 + 5 = 12 + 5 = 17	Problem solving  Brain storming  Explanation	Recitation of multiplication table	Multiplicat ion table	MK book 6 page 62 - 63	
	3		Division	The learner; Identifies digits according to their place values  Divides a number	The learner; Reads , interprets, division, share	Divide $1976 \div 13$ $ \begin{array}{r} 1 & 5 & 2 \\ 13 \overline{\smash)} & 19 & 7 & 6 \\ 1 & x & 13 & = \underline{13} & \checkmark \\ 5 & x & 13 & = \underline{65} \\ 2 & x & 13 & = -\underline{2-6} \\ 0 & = 152 \end{array} $	Problem solving  Brain storming  Explanation	Recitation of multiplication table	Multiplicat ion tables	MK book 6 page 62-63	

	4	Number patterns and sequence	Divisibility test for 2, 3, 4 and 5	The learner; Tells when a number is divisible by 2 Tests for 2 States multiples of 2 and 3	The learner; Read, spells, pronounces and writes words divide divisible divisibility multiplies	Any number ending with an even digit or ends with 0, 2, 4, 6, 8 is divisible by 2  Divisibility test for 3  A number is exactly divisible by 3 if the sum of the digits is divisible by 3.  Test whether 144 is divisible by 3  144 = 1 + 4 + 4  = 9  9÷3 = 3  ∴ 9 is divisible by 3  Divisiblity test for 5  A number is divisible by 5 if it ends with 0 or 5	Guided discovery  Guided discussion  Explanation	Recitation of multiplication table	Chalk board illustration	MK book 6 page 74 - 75	
	5		Divisibility test for 6,7,8, 9 and 10	The learner; Identifies numbers  Tests for divisibility test for 6,7, 8,9 and 10	The learner; Read, spells, pronounces and writes words Numbers Test Divisible Divisibility	Test for 6 A number is dividible by 6 if it is divisible by 2 and 3  Test for 7 When the Ikast digit of a number is doubled and the result is subtracted from the number formed by the digits  Test for 8 A number is divisible by 8 if the number formed by the last three digits is divisible by 8  Test for 9 A number is divisible by 9 if the sum of its digits is divisible by 9  Test for 10 A number is divisible by 10	Group work  Brain storming	Recitation of multiplication table	Chalk board illustration	MK book 6 page 61-62	
6	1	Number pattern and sequence	Square numbers Triangular and Even numbers	The learner; Defines numbers  States examples of various numbers	The learner; Read, spells, pronounces and writes words Even Odd Triangular Prime Square Composite	Triangular number These are number got after adding consecutive counting numbers  Square numbers A square number is a number got after multiplying counting number by itself.  Whole numbers Whole numbers These are natural numbers that are exactly divisible by 2. (0,2,4,6,8,10,1)  Odd numbers These are numbers which are not exactly divisible by 2	Group work  Guided discovery  Explanation	Recitation of multiplication table	Chalk board illustration	MK book 6 page 67-72	

Finding consecutive counting numbers	The learner; Gives the meaning of consecutive Identifies counting numbers Finds consecutive counting numbers	The learner; Read, spells, pronounces and writes words Counting Consecutive Numbers	Consective means follow each other Examples  The sum of three consecutive counting numbers is 36. Find the numbers.	Problem solving  Guided discussion  Explanation	Find consecutive counting numbers	Counters	MK book 6 page 77
Finding consecutive even numbers	The learner; Gives the meaning of the word consecutive  Finds consecutive even numbers	The learner; Read, spells, pronounces and writes words consecutive even numbers	The sum of three Consecutive even Numbers is 24 Find the numbers Let the 1st number be $ 2^{nd} \text{ number be } (k + 2) $ $ 3^{rd} \text{ number be } (k + 4) $ $ k + (k+2) + (k+4) = 24 $ $ k + k + 2 + k + 4 = 24 $ $ k+k+2+4=24 $ $ 3k+6-6=24-6 $ $ 3k \text{ to } 6 = 18 $ $ \frac{3}{6}k = \frac{3}{8}k = \frac{3}{3}k $ $ k = 6 $ $ \frac{k}{6} \frac{k+2}{6} = \frac{6}{6} + 4 $ $ \frac{6}{6} = \frac{6}{2} = \frac{6}{4} + 4 $ $ \frac{6}{6} = \frac{6}{2} = \frac{6}{4} + 4 $ Numbers are 6, 8 and 10	Guided discussion  Explanation	Practice more about consecutive even numbers	Counters	MK book 6 page 78

	4	Number pattems and sequence	Finding consecutive odd numbers	The learner; Identifies numbers  Finds the consecutive odd numbers	The learner; Read, spells, pronounces and writes words consecutive odd number	The sum of three consecutive odd number is 39. Find the numbers  Let the 1st number be y  2nd number be $(y + 2)$ 3rd number be $(-1 + 4)$ $y + y + 2 + 1 \times 4 = 39$ $y + y + y + 2 + y = 39$ $3y + 6 - 6 = 39$ $3y - 3x = 3x$ $y = 11$ $11 + 2                                 $	Problem solving  Guided discovery  Explanation	Recitation of multiplication table Practice	Chalk board illustration	MK book 6 page 68 – 69	
	5		Prime and composite numbers	The learner; Defines prime numbers and composite numbers List prime numbers List composite numbers	The learner; Read, spells, pronounces and writes words Prime composite itself more than	Prime numbers These are counting numbers with only two factors i.e. 1 and itself (2,3,5,7,11)  Composite numbers These are counbting numbers with more than two factors (4, 6, 8, 10, 12, 14, 15,) List Prime numbers between 1 and 10 (2, 3, 5, 7)	Problem solving  Guided discussion  Explanation	Recitation of prime numbers between 0 and 100	A chart showing prime numbers	MK book 6 page 80-81	
7	1		Factors and multiples	The learner; Describes a multiple of a number Lists multiples of various numbers Lists factors of numbers	The learner; Read, spells, pronounces and writes words factor multiple	Factors of a number A factor of a number is that number divides a given number exactly. One is a factor of every number and itself is the last factor. Find the factors of 44.  F44 $ \begin{cases} 1 \times 44 = 44 \\ 2 \times 22 = 44 \\ 4 \times 11 = 44 \end{cases} $ F44 = (1, 2, 4, 11, 22, 44)	Problem solving Guided discussion Explanation	Recitation of multiplication table	A chart showing factors	MK book 6 page 82	
	2		Prime factorization	The learner; Identifies prime factors Finds values of powers Express a number as a product of a month. Finds more values of numbers from given powers	The learner; Read, spells, pronounces and writes words prime factorise numbers	Prime factorisation means a way of finding the prime factors of a number prime factorise 54.  Multiplication form  2	Group work  Guided discovery  Explanation	Recitation of multiplication table of prime numbers	Strains  Bean seeds  Oranges  A chart showing prime factors	MK book 6 page 83-84	

	3		Values of powers of numbers	The learner; Identifies prime factors Finds values of powers Expresses a number as a product of another given number Finds more values of numbers from given powers	The learner; Read, spells, pronounces and writes words values powers product	Values of powers Find the value of 24 $\frac{2}{24} = 2 \times 2$	Group work  Guided discovery  Explanation	Recitation of prime numbers	A chart showing prime factors	MK book 6 page 83-86	
	4		Abilities of numbers in power form	The learner; Identifies powers Finds products of powers Adds numbers in power form	The learner; Read, spells, pronounces and writes words product powers	Find the value of $4^3 + 3^2$ $4 \times 4 \times 4 + 3 \times 3$ $16 \times 4 + 9$ 64 + 9 = 73 Find the value of $2^3 + 3^2 + 5^0$ $2 \times 2 \times 2 + 3 \times 3 + 1$ = 8 + 9 + 1 = 18	Brain storming Explanation	Recitation of multiplication table	A chart showing prime factors	MK book 6 page 86	
	5	Number patterns and sequences	Representing prime factors on venn diagram	The learner; Prime factors  Represent information on venn diagrams	The learner; Read, spells, pronounces and writes words venn, diagram represent information	Use a venn diagram to show prime factors of 36 and 30 $\frac{2 \mid 36 \mid}{2 \mid 18 \mid} \frac{2 \mid 30 \mid}{3 \mid} \frac{5 \mid}{5 \mid} \frac{5 \mid}{5 \mid} \frac{5}{1 \mid} = \frac{536}{32 \mid} \frac{F_{36}}{31 \mid} \frac{F_{30}}{31 \mid} = \frac{F_{30}}{31 F_{3$	Guided discovery  Explanation  Discussion	Identifying prime factors  Drawing venn diagrams	A chart showing prime factors	MK book 6 page 89	
8	1		Finding the GCF and LCM on venn diagrams	The learner; Put information on venn diagram  Calculates GCF  Find LCM	The learner; Read, spells, pronounces and writes words greatest common multiple	Find the GCF and LCM of 8 and 12 using a venn diagram $\begin{array}{c cccc} 2 & 8 & & 2 &  12  \\ \hline 2 & 4 & & 2 &  6  \\ \hline 2 & 2 & & & 3 & 3 \\ \hline & 1 & & & 1 \\ \hline \end{array}$ $F_8 \bigcap F_{12} = (2_1, 2_2)$ GCF of $F_6$ and $F_{12} = 2 \times 2 = 4$ $F_8 \bigcup F_{12} = (2_1, 2_2, 2_3, 3_1)$ LCM of $F_8$ and $F_2 = 2 \times 2 \times 2 \times 3 = 4 \times 6 = 24$	Problem solving  Group work  Explanation	Identifying prime factors  Drawing venn diagram	A chart showing prime factors	MK book 6 page 89	

2	Finding the unknown values in a venn diagram	The learner; Finds the value of un knowns Find GCF Find LCM	The learner; Read, spells, pronounces and writes words values GCF LCM	$F_{x} \underbrace{\begin{pmatrix} 2_{3} & 2_{1} & 3_{2} \\ 2_{2} & 3_{1} & 3_{2} \end{pmatrix}}_{S_{x}}$ $F_{x} \underbrace{(2_{1}, 2_{2}, 2_{3}, 3_{1})}_{S_{x}} = 2 \times 2 \times 2 \times 3$ $= 4 \times 6$ $= 24$ $F_{x} \underbrace{(2_{1}, 2_{2}, 3_{1}, 3_{2}, 3_{3})}_{S_{x}} = 2 \times 2 \times 3 \times 3 \times 3$ $= 4 \times 9 \times 3$ $= 4 \times 9 \times 3$ $= 4 \times 27$ $= 108$ $F_{x} \bigcap F_{-1} = (2_{1}, 2_{2}, 3_{1})$ $GCF = 2 \times 2 \times 3$ $= 12$	Brain storming  Guided discussion  Explanation	Identifying prime factors  Finding values of prime factors	A chart showing prime factors	MK book 6 page 89	
3	Squares and square roots	The learner; Defines squares and square roots  State square numbers  States square roots	The learner; Read, spells, pronounces and writes words squares roots	Find the square root of 64.  2   64   2   32   2   16   2   8   2   4   2   2   1    1/64 = (2 x 2) x (2 x 2) x (2 x 2)  = 2 x 2 x 2  Using a factor tree  64  2   32   2   16   3   2   4   2   2   2   3   3   64   (2 x 2) x (2 x 2)    x (2 x 2)     x (2 x 2)     = 2x2x2     = 2x2x2     = 8	Group work  Guided discovery  Explanation	Recitation of prime numbers	A chart showing prime factors	MK book 6 page 97-98	
4	Squares of fractions and square roots of fractions	The learner; Identify fraction  Find square of fractions  Finds square roots of fractions	The learner; Read, spells, pronounces and writes words Squares Roots	Find the square of $\frac{1}{2}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	Guided discovery Guided discussion	Recitation of multiplication table	A chart showing squares and square roots	MK book 6 page 99-100	

				Find the square of $\frac{5}{6}$ $\frac{5}{6} \times \frac{5}{6} = \frac{25}{36}$ Find the square root of $\frac{1}{9}$ $\sqrt{\frac{1}{9}} = \sqrt{\frac{1}{3} \times \frac{1}{3}}$ $= \frac{1}{3}$	Explanation				
5	Squares and square roots of decimals	The learner; Identifies fractions  Finds squares of decimals  Finds square	The learner; Read, spells, pronounces and writes words Fractions decimals root	Square of decimals Find the square of $0.4$ = $0.4 \times 0.4$ = $\frac{4}{10} \times \frac{4}{10}$ = $\frac{16}{100}$ = $0.16$ Find the square root of $0.36$ $\frac{2 \mid 36 \mid 2 \mid 100 \mid 2 \mid 50 \mid 3 \mid 3}{3 \mid 3 \mid 1}$ $\frac{2 \mid 100 \mid 2 \mid 50 \mid 5 \mid 25 \mid 5 \mid 5}{5 \mid 5 \mid 1}$ $\sqrt{36} = \sqrt{(2 \times 2) \times (3 \times 3)}$ = $2 \times 3$ = $6$ $\sqrt{00} (2 \times 2) \times (5 \times 3)$ = $2 \times 5$ = $10$ $\sqrt{\frac{36}{100}} = \sqrt{\frac{6x6}{10x10}} = \frac{6}{10} = 0.6$	Problem solving  Group work  Explanation	Practice on square roots	A chart showing squares and square roots	MK book 6 page 102-103	