

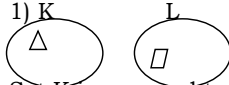


MATHEMATICS SCHEME OF WORK FOR PRIMARY SIX TERM ONE

E.L.O: The learner demonstrates the knowledge of sets to solve problems in real life situations.

| W K | P D | T H E M E | TOPIC | SUBTOPIC | CONTENT | COMPETENCES | | INDICA TORS OF LIFE SKILLS AND VALUES | METHO DS | ACTIVI TY | INSTR UCTIO NAL INSTU RMENT S | REF | R E M |
|--------|--------|-----------------------|--------------------|--|---|--|--|--|--|--|---|---|-------------|
| | | | | | | LANG COMP | SUB COMP | | | | | | |
| 1 | 1 | S | SET CONCE PT | -definition of a set -Types of sets. a)equal sets b)equivalent sets c)Unequal sets | -A set is a collection of well defined elements. <u>Equal sets</u> . Have the same type of members and number of elements. <u>Example</u> . $A=\{a,b,c\}$ $B=\{c,a,b\}$ Set A is equal to set B. $A = B$ <u>Equivalent sets</u> . Have the same number of elements but may be of different members. <u>Example</u> | The learner -describes equal sets, equivalent and un equal sets | The learner -defines a set -identifies the set symbols for each type -forms given sets | Creative thinking Effective commun ication Problem solving | Explanati on Discussio n Question and answer | Collectin g items Sorting items accordin g to colour, size, shape e.t.c | Real objects like stones, pens, pencils, books e.t.c - chalkbo ard | Mk Math s book 6 pg P.6 Curr page 150 | |

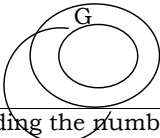
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| | | | | <p>$X=\{1,2,3,4\}$ $Y=\{4,5,6,7\}$ set X is equivalent to set Y. $X \leftrightarrow Y$ <u>Unequal sets</u>. May have different members but the same type or have the same number but different type. Examples 1) K L  Set K is unequal to set L. $K \neq L$</p> <p>2. $M=\{x, x, x, x\}$ $N=\{x, x, x, x, x\}$ Set M is unequal to set N. $M \neq N$</p> | | | | Describing sets | illustrations | |
| 2 | SETS | | Types of sets -Union sets -Intersection of sets -Empty | (U) - <u>Union sets</u> : A set of all elements that are contained in two or more sets without repeating a member. <u>Example</u> $A=\{1, 2,3\}$ $B=\{3,4,5\}$ $A \cup B = \{1,2,3,4,5\}$ - <u>Intersection of sets</u> (\cap) A set of common members from in two or more sets. | -reads statements correctly. -Describes union sets, intersection sets and empty sets | -forms sets -names examples of empty sets -solves problems involving empty, intersection and | Critical thinking Problem solving Effective communication | Discussion Explanation Question and answer | Forming sets Working out numbers involving union sets, intersection of | Chalkboard illustrations Mks Maths book 6 pages 2 – 5 Understanding Math |

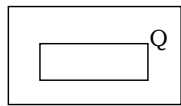
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| | | | | <u>Example</u> $D = \{a, b, c\}$ $F = \{a, b, c, d, e\}$ $D \cap F = \{a, b, c\}$ $(\{\}, \emptyset)$ <u>-Empty set::</u> An empty set is a set without members. Another name for empty set is null set. <u>Examples</u> 1) $M = \{\text{A set of boys with breasts}\}$ 2) Given that $P = \{\text{Grace, Sam, Peter}\}$ $Q = \{\text{box, boy, Bag}\}$ Find $P \cap Q$ $P \cap Q = \{\}$ or \emptyset | union sets | | Think and pair | sets and empty sets. | | emati cs bk.6 pgs 2-5 P.6 Curr page 150 |
| 3 & 4 | | Types of sets -complement of sets -difference of sets | <u>Complement of sets</u> Is a set of members outside the given set. <u>Example:</u> $S = \{1, 2, 4\}$ $T = \{2, 4, 5, 6, 7\}$ Find the complement of set B (members not in B) $B \square = \{1\}$ <u>Difference of sets:</u> A set of elements in a set which are not in the other set. <u>Example</u> $P = \{1, 2, 3, 4\}$ $Q = \{3, 5, 6\}$ Find: i) $P - Q$ (ii) $Q - P$ | -reads given statements -describes the term complement of sets and difference of sets | -defines complement of sets -defines complement of sets and difference of sets -find the complement of sets and difference of sets | Effective communication Creative thinking Problem solving | Explanation Discussion Question and answer | Finding: complement of sets Difference of sets | Chalkboard illustrations | Mk book 6 pages 8-17 Understanding Mathematics book 6 pg 7. |

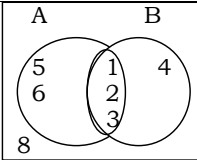

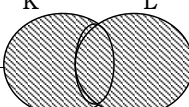
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| | | | | | | | | | | | | |
| | 5 | | | <p>Types of sets</p> <p>Subsets using listing</p> | <p>{1,2,4} {5,6}</p> <p><u>C</u> <u>Subset</u> :Is a set formed from any given set <u>Example</u> Given set $P = \{4,5,6\}$ List the sub sets from set P. $\{4\}$ $\{5\}$ $\{6\}$ $\{4,5\}$ $\{4,6\}$ $\{5,6\}$ $\{4,5,6\}$, $\{\}$</p> <p>-Drawing venn diagrams to show subsets <u>Example</u> Draw a venn diagram to show that all grils are females.</p>  | <p>-reads statement s -describes subsets</p> | <p>-defines a subset -lists subsets from given sets -draws venn diagrams to show subsets -finds the number of subsets</p> | <p>Creative thinking</p> <p>Effective communication</p> <p>Problem solving</p> | <p>Guided discussion</p> <p>Explanation</p> <p>Demonstration</p> <p>Question and answer</p> | <p>Listing subsets</p> <p>-drawing of venn diagrams</p> | <p>Chalkboard illustrations</p> | <p>Mk math s bk.6 pg 16-18</p> <p>P.6 Curr page 150</p> |
| | 6 | | | <p>Subsets using the formula</p> <p>-finding number of proper subsets</p> | <p>Finding the number of subsets using the formula. Number of subsets = 2^n where n represents number of elements in a set. <u>Example.</u> If $K = \{4, 5, 6\}$ find the number of subsets in K. Set K has 3 members $2^n = 2^3$ $= 2 \times 2 \times 2$</p> | <p>-reads statements correctly</p> | <p>- calculates the number of elements when given the number of subsets</p> | <p>Creative thinking</p> <p>Effective communication</p> <p>Problem solving</p> | <p>Guided discussion</p> <p>Explanation</p> <p>Demonstration</p> | <p>Finding number of subsets</p> <p>Finding number of proper subsets</p> | <p>Chalkboard illustrations</p> | <p>Mk Maths bk.6 page 18</p> |

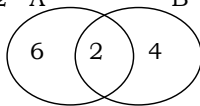
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| | | | | | $= 4 \times 2$ $= 8$ subsets | | | | Question and answer | | | |
| | 6 | | Subsets | <p>Finding number of elements when given the number of subsets</p> <p>Example</p> <p>Find the number of elements in a set that has 32 subsets</p> $\begin{array}{r l} 2^n = 32 & 2 & 32 \\ & 2 & 16 \\ & 2 & 8 \\ & 2 & 4 \\ & 2 & 2 \\ n = 5 & & 1 \end{array}$ <p>$= 2 \times 2 \times 2 \times 2$</p> <p>$= 2^5$</p> <p>$2^n = 2^5$</p> <p>$n = 5$</p> <p>$= 5$ members.</p> | The learner: -reads statements -calculates the number of elements when given the number of subsets | | Critical thinking Creative thinking Effective communication Problem solving | Explanation Guided discovery | Finding number of elements when subsets are given | Chalkboard illustration | Mk Bk 6 Old edition P.6 Curr page 150 | |
| | 7 | | Universal sets | <p>Universal set: Is the biggest set from which other smaller sets can be got</p> <p>Examples. P</p> <p>1) </p> <p>P is the universal set Q is the smaller set got from P.</p> <p>2) C</p> | -reads and spells the word “universal” -describes the term universal. | -studies the given sets -differentiates between union sets from universal set -forms given sets | Critical thinking Problem solving Effective communication | Explanation Guided discovery | Forming /naming given sets | Chalkboard illustrations A drawn chart in relation to sets | MK Maths book 6 pg 20 Understanding Math | |

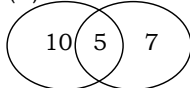
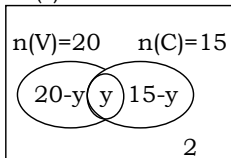
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| | | | | |  <p>Find the members in:</p> <p>a) $A = \{1, 2, 3, 5, 6\}$ b) A only, $(A - B)$, $B \cap \{5, 6\}$ c) $B = \{1, 2, 3, 4\}$ d) B only, $(B - A)$, $A \cap \{4\}$ e) $A \cup B = \{1, 2, 3, 5, 4, 6\}$ f) $C = \{1, 2, 3, 4, 5, 6, 7, 8\}$ Set C is the universal set</p> | -identifies universal sets from union sets | Creative thinking | Question and answer | | | ematics bk.6 pg 12 P.6 Curr page 150 |
| 2 | 1 | | <p>Shading given regions on venn diagrams</p> <p>-Describing shaded regions</p> | <p>Shading regions</p> <p>Example</p> <p>Shade $A - B$ in the venn diagram</p>  <p>Describing shaded regions</p> <p>Example</p> <p>Name the shaded part</p>  | -reads and interprets the given statements | -draws venn diagrams -shades the required regions -describes the shaded region | Effective communication Problem solving Creative thinking | Explanation Illustration Discussion | Draining venn diagrams Shading regions on venn diagrams Describing | Chalkboard regions | Mk Maths 2000 bk 7 pge 7 P.6 Curr page 150 |

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| | | | | | | | Critical thinking | Question and answer | shaded regions | | | |
| | 2 | | | Finding number of member in a set | Number of members in a set Example 1)Set Y ={1, 2, 3}, find n(Y) n(Y) = 3 2 A B  n(A) 6 + 2 = 8 n(B) 2 + 4 = 6 | -reads statements -interprets information on the venn diagram | -finds the number of members in the given set | Creative thinking Effective communication Problem solving Interpersonal relationship | Guided discussion Explanation Question and answer | Finding number of members in given sets | Chalkboard illustrations | Primary Mathematics bk. 6 pg 8 MK Maths bk.6 pg 29 P.6 Curr page 150 |
| | 3 | | --- | Word problems in a set | Word problems in a set Example In a class, 12 pupils like Maths, 15 like English and 5 like both subjects. a)Show the above information on a venn diagram ε= | -reads and interprets the given information | - represents the given information on the venn diagram -solves problems | Creative thinking Effective communication Problem solving | Guided discussion Explanation Question and answer | Representing information on venn diagrams | Chalkboard illustrations | MK Maths bk.6 page 29 P.6 Curr page 150 |

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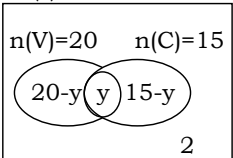
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| | | | | | $n(E)=15$  $15-5=10$ $12-5=7$ | | involving venn diagrams | Interpersonal relationships | | | | |
| 4 | | Application of sets in word problem | <p>Example In a village of 30 farmers, 20 farmers plant vanilla(V), 15 grow coffee(c), Y grow both crops and 2 grow neither of the two crops. a) Show the above data on the venn diagram. $n(e) = 30$farmers</p> <div>$n(V)=20$ $n(C)=15$ </div> <p>b) Find the number of farmers that grow both crops $2+20-y+y+15-y=30$ $22+15+y-y-y = 30$ $37 - y = 30$ $37 - y + y = 30 + y$ $37 = 30 + y$ $37-30 = 30-30+y$</p> | -reads and interprets the given information | -writes the statements - represent s the given informatio n on Venn diagrams -solves problems involving venn diagrams | Critical thinking Problem solving Effective communication Creative thinking | Guided discovery Explanati on Question and answer | Solving for the unknown n on venn diagrams | Chalkboard illustrations A drawn chart in relation to sets. | Maths Revision Hand book 6 pg 12 MkM aths book 6 pg 20 Understan ding Math ematics book 6 pg 12 | | |

involving
venn
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Interper
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Application of sets in word problem

Example
In a village of 30 farmers,
20 farmers plant
vanilla(V), 15 grow
coffee(c), Y grow both
crops and 2 grow neither
of the two crops.
a) Show the above data
on the venn diagram.
 $n(\epsilon) = 30$ farmers



b) Find the number of farmers that grow both crops

$$\begin{aligned}2+20-y+y+15-y &= 30 \\22+15+y-y-y &= 30 \\37-y &= 30 \\37-y+y &= 30+y \\37 &= 30+y \\37-30 &= 30-30+y\end{aligned}$$

- reads and interprets the given information

- writes the statements
- represents the given information on Venn diagrams
- solves problems involving venn diagrams

Critical
thinking

Guided
discovery

Solving for the unknown on venn diagrams

Chalkboard illustrations

A drawn chart in relation to sets.

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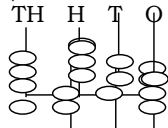
Explanation

Problem solving

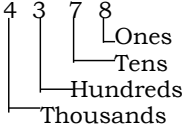
commun
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Creative thinking

Question and answer

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| | | | | | $7 = y$ $Y = 7$ 7 farmers c) How many farmers grow vanilla only? $20 - y$ $20 - 7 = 13$ farmers | | | | | | | P.6 Curr page 150 |
| E.L.O: The learner appreciates the need of counting in everyday life and works with whole numbers up to 9,999,999 | | | | | | | | | | | | |
| | 5 | N U M E R A C Y | NUMER ATION SYSTE M AND PLACE VALUE S | Review of place values using an abacus | Writing place values and showing numbers on the abacus. Example 1) Given  What number is shown on the abacus? | -reads the given numbers correctly | -writes the place values of given numbers on the abacus -shows numbers on the abacus | Critical thinking Effective communication Creative thinking | Discussion Explanation Question and answer | -Writing place values using the abacus - showing numbers on the abacus | Chalkboard illustrations Abacus | A New MK Primary Mathematics book 6 pg 21 P.6 Curr page 153 |
| | | | | Forming numeral from digits | <u>Number:</u> A number is an idea of quantity <u>Formation of numbers</u> <u>Examples</u> Using 6,2,5, and 3, form the: a) smallest number. $6,2,5,3 = 2,356$ | -reads and writes statements | -defines a number -uses given digits to solve given problems | Critical thinking Effective communication | Discussion Explanation | Forms numbers from given digits | Chalkboard illustrations | Mk Maths book 6 page 34-35 |

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| | | | | b)Largest/biggest number. 6,2,5,3 =6,532 c) Find the sum of the two numbers formed. $\begin{array}{r} 6\ 5\ 3\ 2 \\ +\ 2\ 3\ 5\ 6 \\ \hline 8\ 8\ 8\ 8 \end{array}$ d)Work out the difference between the biggest and the smallest numbers. | | | Creative thinking | Question and answer | | | P.6 Curr page 153 | |
| | 6 | NUMERATION SYSTEM AND PLACE VALUES | Place values of whole number | <u>Place value:</u> Place value tells the position of a digit in a particular number. Example 1.Give the place value of each digit in 4378  | -describes the term place values and values -reads statements correctly | -identifies place values of digits in given numbers -finds the values of digits in given numbers | Critical thinking Effective communication Creative thinking | Explanation Discussion Question and answer | Finding place values | Chalkboard illustrations | Mk Maths book 6 pg 35 P.6 Curr page 153 | |
| | | | Values | <u>Value:</u> Value is how big a number value is the product of a number and its place value. Example. | -reads statements correctly | -identifies place values -reads and writes | Critical thinking | Explanation | Finding values of given digits | Chalkboard illustrations | MK Maths book 6 pg | |

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| | | | | | 1.Find the value of 8 in 48 2 1. 4 8 2 1 └─ Hundreds(100) = 8 x 100 = 800 | | numbers in words | Effective communication | Discussion | | | 24-25 P.6 Curr page 153 | | | | | | | | | | | |
| | 7 | NUMERATION SYSTEM AND PLACE VALUES | Reading and writing number in words up to a million | <u>Writing numbers in words</u> <u>Examples</u> <u>Write in words</u> 1)34, 782 <table><tr><td>M</td><td>Thousands</td><td>units</td></tr><tr><td></td><td>34</td><td>782</td></tr></table> Thirty four thousand seven hundred eighty two. 2) 4,004,004 <table><tr><td>M</td><td>Thousands</td><td>units</td></tr><tr><td>4</td><td>004</td><td>004</td></tr></table> Four million, four thousand , four | M | Thousands | units | | 34 | 782 | M | Thousands | units | 4 | 004 | 004 | -reads statements correctly | -identifies place values -reads and writes numbers in words | Critical thinking Effective communication Creative thinking | Explanation Discussion Question and answer | Writing numbers in words | Chalkboard illustrations | Mk Maths book 6 pg 47 P.6 Curr page 153 |
| M | Thousands | units | | | | | | | | | | | | | | | | | | | | | |
| | 34 | 782 | | | | | | | | | | | | | | | | | | | | | |
| M | Thousands | units | | | | | | | | | | | | | | | | | | | | | |
| 4 | 004 | 004 | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | NUMERATION | Reading and writing number | <u>Writing numbers in figures:</u> <u>Example</u> | -reads statements correctly | -writes statements correctly | Critical thinking | Explanation | Writing words in figures | Chalkboard illustrations | Mk Maths book | | | | | | | | | | | | |

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| | | | SYSTEM AND PLACE VALUES | words in figures | Write in figures: Thirty thousand eight hundred forty five. Solution: Thirty thousand= Eight hundred= Forty five 30,000 800 + 45 <u>30,845</u> | | -writes numbers in figures | Effective communication Creative thinking | Discussion Question and answer | | | 6 pg 46. Understanding Mathematics book 6 P.6 Curr page 153 |
| | 2 | | | Writing number in expanded form | Expanding using: -place values -values <u>Examples</u> 1)Expand 2145 using place values =2145 <div style="display: flex; align-items: center;"><div style="margin-right: 10px;"><div style="border-left: 1px solid black; height: 100px; position: relative;"><div style="position: absolute; top: 0; left: -10px;">2</div><div style="position: absolute; bottom: 0; left: -10px;">1</div><div style="position: absolute; top: 50%; left: -10px;">4</div><div style="position: absolute; bottom: 0; left: 10px;">5</div></div><div style="margin-left: 10px;"><div style="border-left: 1px solid black; height: 100px; position: relative;"><div style="position: absolute; top: 0; left: -10px;">2</div><div style="position: absolute; bottom: 0; left: -10px;">1</div><div style="position: absolute; top: 50%; left: -10px;">4</div><div style="position: absolute; bottom: 0; left: 10px;">5</div></div><div style="margin-left: 10px;"><div style="border-left: 1px solid black; height: 100px; 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| | | | | | <div><div>2145</div><div><div>└─5x1=5</div><div>└─4x10=40</div><div>└─1x100= 100</div><div>└─2x1000=2000</div></div><div>2000+100+40+5</div></div> | | -expands numbers using exponents . | | | | | |
| | | | NUMERATION SYSTEM AND PLACE VALUES | Expanding using powers of ten or exponents. Example Expand 6854 using powers of ten. $6854= 6^{103}8^{102}5^{101}4^{100}$ $(6 \times 10^3)+(8 \times 10^2)+(5 \times 10^1)+(4 \times 10^0)$ | The learner writes numbers in expanded form using powers of ten or exponents | | Creative thinking Effective communication Critical thinking | Explanati on Discussio n Question and answer | Expandi ng number s using powers of ten | Chalkb oard illustrat ions | Mk Math s book 6 pg 37 P.6 Curr page 153 | |
| | 3 | | | Writing number from expanded notation Writing expanded numbers in short form (single numbers) <u>Example</u> Write $8000+660 + 700+ 4$ as a single number $8000+60+700+4$ $\begin{array}{r} = 8000 \\ \quad 700 \\ \quad \quad 60 \\ \quad \quad \quad 4 \\ + \quad \quad \quad 4 \\ \hline 8764 \end{array}$ | -reads given statements | -writes expanded in short form or as a single number | Creative thinking Effective communication Critical thinking | Explanati on Discussio n | Writing number s from expande d form to single number s | Chalkb oard illustrat ions | Mk Math s book 6 pg 38 P.6 Curr page 153 | |

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| | | | | | | | | Question and answer | | | | |
| | 4 | | Standard form scientific notation of whole number | Standard or scientific notation is the writing of a given number such that it lies between 0 and 10. Example Write 4639 in scientific notation method I $4639 = 4639 \div 10 = 463.9$ $463.9 \div 10 = 46.39$ $46.39 \div 10 = 4.639$ $= 4.639 \times 10^3$ Method II $4639 = 4.639$ $= 4.639 \times 10^3$ | -describes scientific or standard notation | -writes whole numbers in scientific notation | Creative thinking Effective communication Critical thinking | Explanation Discussion Question and answer | Writing whole numbers in standard notation | Chalkboard illustrations | Mk Maths book 7 P.6 Curr page 153 | |
| | 5 | NUMERATION SYSTEM AND PLACE | Rounding off whole number | Rounding off whole numbers Examples Round off: 1) 677 to the nearest tens $677 = 6 \overline{7} 7$ $\begin{array}{r} +1 \\ 680 \end{array}$ 2) 1234 to the nearest hundreds. $1234 = 1 \overline{2} 34$ | -reads and interprets statements | -names digits used to change a number before them by adding 0 or 1 to it. -identifies place values of digits in | Creative thinking Effective communication Critical thinking | Explanation Discussion | Rounding off whole numbers | Chalkboard illustrations | Mk Maths book 6 page 38 P.6 Curr page 153 | |

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| | | | | | 10 | | | Critical thinking | | | | page 153 |
| | 7 | | VALUE S | | <p>Reading and writing decimal numbers in words</p> <p>Example.</p> <p>Write 0.125 in words.</p> <p>0.125 = <u>125</u> 1000</p> <p>One hundred twenty five thousandths</p> | <p>-reads place values of decimals</p> <p>-spells and pronounces place values of decimals correctly</p> | <p>-identifies and writes place values of each digit</p> <p>-finds the value of decimal numbers</p> | | Question and answer | Writing decimal numbers in words | Chalkboard illustrations | <p>Mk Maths book 6 page 46</p> <p>Understanding Maths book 6</p> <p>P.6 Curr page 153</p> |
| 4 | 1 | | | | <p>Writing decimal numbers from words to figures.</p> <p>Example</p> <p>Write twenty four and six tenths in figures.</p> <p>Twenty four = 24</p> <p>Six tenths $\frac{6}{10} = \frac{+0.6}{24.6}$</p> | <p>-reads and solves problems involved in decimals</p> | <p>-changes decimals to fractions</p> <p>-writes decimal numbers in words</p> <p>-writes decimal</p> | <p>Creative thinking</p> <p>Effective communication</p> <p>Critical thinking</p> | <p>Explanation</p> <p>Discussion</p> | Writing decimals in figures | Chalkboard illustrations | <p>Mk Maths book 6 pg 45</p> <p>P.6 Curr page 153</p> |

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| | | | | | | numbers in figures | | Question and answer | | | | |
| | 2 | NUMER ATION SYSTE M AND PLACE VALUE S | Decimal number | Writing decimal numbers in expanded form Examples 1)Write 3.54 in expanded form using place values. 3.54 Hundredths $\frac{1}{100}$ Tenths $\frac{1}{10}$ Ones (1) Solution: (3x1)+(5x $\frac{1}{10}$)+(4x $\frac{1}{100}$) 2) Expand 3.54 using values 3.54 $\frac{1}{100} = 4 \times \frac{1}{100} = \frac{4}{100}$ = 0.04 $\frac{1}{10} = 5 \times \frac{1}{10} = 5 \times 0.1 = 0.5$ 3x1=3 Solution 3+0.5+0.04 | -reads and interprets problems involved in expanding decimals | -writes decimal numbers in expanded notation | Creative thinking Effective commun ication Critical thinking | Explanati on Discussio n Demonst ration Question and answer | Writing decimal number s in expande d form using place values and values | Chalkb oard illustrat ion | MK Math s book 6 2000 of 59 P.6 Curr page 153 | |
| | 3 | NUMER ATION | Decimal number | Expanding decimal numbers using powers of ten. Example | -reads and interprets problems involved in | -writes decimal numbers in | Creative thinking | Explanati on | Writing decimal number s in | Chalkb oard illustrat ions | Mk Math s book | |

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| | | | SYSTEM AND PLACE VALUES | | Expand 3.54 using powers of ten. $3.54=3^{100}.5^{10-1}4^{10-2}$ $(3 \times 10^0)+(5 \times 10^{-1})+(4 \times 10^{-2})$ | expanding decimals | expanded notation | Effective communication Critical thinking | Discussion Demonstration Question and answer | expanded form using powers of ten | | 6 old edition pg 59 P.6 Curriculum page 153 |
| | 4 | | | Decimals | Writing expanded decimal number in short form <u>or as single numerals.</u> Write as single numerals 1) $4+0.6+0.02$ 4.00 0.60 <u>+0.02</u> 4.62 2) $3+0.03+0.003$ 3.000 0.030 <u>+0.003</u> 3.033 3) $(4 \times 10^2)+(6 \times 10^0)+(1 \times 10^{-1})$ $4 \times 10 \times 10+6 \times 1+1 \times \frac{1}{10}$ $4 \times 100+6+\frac{1}{10} \Big \begin{array}{l} 400.0 \\ 6.0 \end{array}$ | -reads and interprets the statements correctly | -writes expanded decimal numbers in short form | Creative thinking Effective communication Critical thinking | Explanation Discussion Question and answer | Writing expanded decimal numbers in short forms | Chalkboard illustrations | MK Maths book 6 Old edition pg 59 P.6 Curriculum page 153 |

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| | | | | | $400+6+0.1$ $=406.1$ | $+ \frac{0.1}{406.1}$ | | | | | | |
| 5 | NUMERATION | Decimals | Writing decimal numbers in scientific notation Example Write 0.4 in standard form 0.4 =4 x tenths = $4 \times \frac{1}{10}$ = 4×10^{-1} = 4.0×10^{-1} | -reads and solves problems involved in decimals | -writes decimal numbers in scientific notation | Creative thinking Effective communication Critical thinking | Explanation Discussion Question and answer | Writing decimal numbers in scientific form | Chalkboard illustrations | MK Maths book 6 old edition pg 60 P.6 Curr page 153 | | |
| 6 | VALUE S | | Rounding off decimal numbers. Example 1)Round off 0.625 to the nearest tenths(One decimal place, first decimal place) 0 hundredths 0.625-Thousandths $+ \frac{0}{0.6}$ | -mentions place values of decimal numbers -reads and interprets given statements | -identifies the digits in the required place values -rounds off as required correctly | | | Rounding off decimal numbers | Chalkboard illustration | Mk Maths book 6 Old Edition on pg 61 P.6 Curr page 153 | | |

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|-------|-----|------|---|---------------|--|---|---|--|-------------------------------|---|--------------------------|--|---|---|---|-----|-----|------|------|---|---|---|---|---|---|---|---|---|--|--|
| | | 7 | | Roman numeral | Relationship of Roman and Hindu Arabic numerals. Example <table><tr><td>Hindu</td><td>1</td><td>5</td><td>10</td><td>50</td></tr><tr><td>Roman</td><td>I</td><td>V</td><td>X</td><td>L</td></tr></table> <table><tr><td>100</td><td>500</td><td>1000</td><td>5000</td></tr><tr><td>C</td><td>D</td><td>M</td><td>V</td></tr></table> <div></div> Reading and writing of Roman numerals. Examples 2 is read as II 20 is read as XX 200 is read as CC | Hindu | 1 | 5 | 10 | 50 | Roman | I | V | X | L | 100 | 500 | 1000 | 5000 | C | D | M | V | Reads and relates roman numerals in Hindu Arabic numerals | -identifies the basic roman numerals. - expresses Hindu Arabic as Roman numerals | Creative thinking Effective communication Critical thinking | Guided discussion Explanation Question and answer | Relating Roman numerals and Hindu Arabic numerals Reading and writing Roman numerals | A chart showing relationship of Roman numerals and Hindu Arabic numerals Chalkboard illustrations | Mk Maths book 6 page 32-33. P.6 Curr page 153 |
| Hindu | 1 | 5 | 10 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roman | I | V | X | L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 500 | 1000 | 5000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | D | M | V | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1 | | NUMERATION SYSTEM AND PLACE | Roman numeral | Expressing Hindu Arabic numerals as Roman numerals Example Express 29 as a Roman numeral. 29= 20 + 9 = xx + ix = xxix | Reads and relates roman numerals in Hindu Arabic numerals | -identifies the basic roman numerals. - expresses Hindu Arabic as Roman numerals | Creative thinking Effective communication | Discussion Explanation | Writing Hindu Arabic numerals as Roman numerals | Chalkboard illustrations | Mk Maths book 6 pg 32-33 P.6 Curr | | | | | | | | | | | | | | | | | | |

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| | | | VALUE S | | | | Critical thinking | Question and answer | | | page 153 |
| 2 | | | | Writing Roman numerals as Hindu Arabic numerals Examples i)Express xiii as Hindu Arabid numerals. $\text{Xiii} = \text{x} + \text{iii}$ $= 10 + 3$ $= 13$ ii)Change Lxxv to Hindu Arabic numerals $\text{Lxxv} = \text{L} + \text{xx} + \text{v}$ $= 50 + 20 + 5$ $= 70 + 5$ $= 75$ | -reads and interprets statements correctly | - expresses roman numerals as Hindu Arabic numerals | Creative thinking Effective communication Critical thinking | Discussion Explanation Question and answer | Writing Roman numerals as Hindu Arabic numerals | Chalkboard illustrations | MK Maths book 6 pg 33 P.6 Curr page 153 |

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| | 3 | | | Application of Roman numerals in real life situations -Reading time in Roman numerals on clock faces -reading bank notes in Roman numerals | -reads and solves problems involving Roman numerals | -Writes roman numerals -solves problems involving roman numerals | | | Reading-time in Roman numerals -bank notes in Roman numerals | Clock faces Bank notes | Functional Prim ary Math ematics book 7 page 22 Teac her's collec tion |
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| 4 | | | Bases (REVISION) | <p>*Base names up to base twelve</p> <p>Base two –Binary</p> <p>Base three-Ternary</p> <p>Base four –Quaternary</p> <p>Base five quinary e.t.c.</p> <p>*Place values of bases</p> <p>Examples</p> <p>Write the place and values of each digit in 432_{five}</p> <p> $\begin{array}{r} 4 \quad 3 \quad 2_{\text{five}} \\ \quad \quad \\ \text{— Ones} \\ \text{— Fives} \\ \text{— Five fives (twenty fives)} \end{array}$ </p> | -reads base names up to 12 -reads place values of different bases | Writes base names up to 12 -writes place values of different bases | | | Reading and writing bases | A chart showing base names and digits for each base | Mk Maths book 6 |
| 5 | NUMERATION | SYSTEM AND PLACE VALUES | Bases | <p>Expanding numbers in bases</p> <p>Example</p> <p>Expand $23_{\text{five}} = 2 \times 5^1 + 3 \times 5^0$</p> <p>2 fives + 3 ones</p> <p>$(2 \times 5) + (3 \times 1)$</p> <p>$(2 \times 5^1) + (3 \times 5^0)$</p> <p> $\begin{array}{r} \text{ones} \\ \text{three} \\ \text{three} \\ \text{three} \\ \text{three} \\ \text{three} \end{array}$ </p> <p>ii) $102_{\text{three}} = 1 \times 3^2 + 0 \times 3^1 + 2 \times 3^0$</p> <p>1 three threes + 0 threes</p> <p>+ 2 ones $(1 \times 3 \times 3) + (0 \times 3)$</p> <p>+ (2×1)</p> <p>$(1 \times 3^2) + (0 \times 3^1) + (2 \times 3^0)$</p> | -reads numbers in their respective bases | -expands numbers in their respective bases | creative thinking | Explanation | Expanding numbers in bases | Chalkboard illustrations | Mk Maths book 5 page 71 |
| | | | | | - | | Effective communication | Discussion | | | P.6 Curr page 153 |
| | | | | | | | Critical thinking | Question and answer | | | |

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|---|---|---|--|---|--------------------------------------|---|---|---|---|--------------------------|---|---|---|---|---|---|--|---|---|--------------------------------------|---|--|-------------------------------|---|--------------------------|--|
| 6 | | | | <u>Conversion of bases</u> Changing from non-decimal bases to decimal base. <u>Example</u> Change 23_{five} to base ten $23_{\text{five}} = 2 \times 5^1 + 3 \times 5^0$ $2 \times 5 + 3 \times 1$ $10 + 3$ $= 13_{\text{ten}}$ | -reads and interprets given problems | -identifies place value of each digit in a given number -changes from any non decimal base to decimal base -convert from decimal base to non decimal base | | | Changing from non-decimal bases to decimal base | Chalkboard illustrations | Mk Maths book 6 Old Edition on pg 39 P.6 Curr page 153 | | | | | | | | | | | | | | | |
| 7 | | | | <u>Conversion of bases</u> Changing from decimal base to non decimal base. <u>Example</u> Change 38_{ten} to base five. <table><tr><td>B</td><td>N</td><td>R</td></tr><tr><td>5</td><td>3</td><td>8</td></tr><tr><td>5</td><td>7</td><td>3</td></tr><tr><td>5</td><td>1</td><td>2</td></tr><tr><td></td><td>0</td><td>1</td></tr></table> $= 123_{\text{five}}$ | B | N | R | 5 | 3 | 8 | 5 | 7 | 3 | 5 | 1 | 2 | | 0 | 1 | -reads and interprets given problems | -identifies place value of each digit in a given number -changes from any non decimal base to decimal base | creative thinking Effective communication | Explanation Discussion | Changing from decimal base to non-decimal base. | Chalkboard illustrations | Mk Maths book 6 Old Edition on page 39 P.6 Curr |
| B | N | R | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3 | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|----|---|---|-------|--|----------------------|--|-------------------|---------------------|-----------------|------------|----------|--|---|---|---|---|---|---|--|---|---|--|---|--|--|
| | | | | | | | -convert from decimal base to non decimal base | Critical thinking | Question and answer | | | page 153 | | | | | | | | | | | | | | |
| | 6 | 1 | NUMERATION SYSTEM AND PLACE VALUES | Bases | Changing from non – decimal base to non-decimal base Example Change 123 _{five} to base six. -Change to decimal base(base ten)first $123_{\text{five}} = 1 \times 5^2 + 2 \times 5^1 + 3 \times 5^0$ $(1 \times 5^2) + (2 \times 5^1) + (3 \times 5^0)$ $1 \times 5 \times 5 + 2 \times 5 + 3 \times 1$ $25 + 10 + 3$ $25 + 13$ 38_{ten} <table><tr><td>B</td><td>N</td><td>R</td></tr><tr><td>6</td><td>38</td><td></td></tr><tr><td>6</td><td>6</td><td>2</td></tr><tr><td>6</td><td>1</td><td>0</td></tr><tr><td></td><td>0</td><td>1</td></tr></table> $= 102_{\text{six}}$ $123_{\text{five}} = 102_{\text{six}}$ | B | N | | | R | 6 | 38 | | 6 | 6 | 2 | 6 | 1 | 0 | | 0 | 1 | -reads and interprets problems correctly | -converts from non decimal base to non decimal base | | Changing non-decimal to non-decimal base |
| B | N | R | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 | NUMERATION | Bases | Solving for the unknown base | Reads and interprets | -solves the | creative thinking | Explanation | Solving for the | Chalkboard | Mk Math | | | | | | | | | | | | | | |

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| | | | | | | | Effective communication | Question and answer | | | | |
| | | | | | | | Critical thinking | | | | | |
| E.L.O: The learner solves mathematical problems with competence and confidence using the four operations | | | | | | | | | | | | |
| | 3 | NUMERATION SYSTEM AND PLACE | Addition of whole number | Addition of large numbers. Example Work out: $\begin{array}{r} 2\ 3\ 3\ 0\ 4\ 6 \\ +4\ 1\ 3\ 7\ 2\ 1 \\ \hline 6\ 4\ 6\ 7\ 6\ 7 \end{array}$ | -reads and interprets statements involving addition of large numbers | -adds large numbers with or without regrouping -solves word problems involving addition | creative thinking Problem solving Co-operation Effective communication | Explanation Guided discussion | Adding large numbers | Chalkboard illustrations | Mk Maths book 6 page 54 P.6 Curr page 156 | |
| | | VALUES | Addition of whole Numbers in word problems | Word problems involving addition. Example 1. There were 246240 books in the library and the headmistress 167645 more books to the same library. How many books are in the library altogether? $\begin{array}{r} 246240 \text{ books} \\ +167645 \text{ books} \\ \hline 413885 \text{ books} \end{array}$ | -reads and interprets statements involving addition of large numbers | -adds large numbers with or without regrouping -solves word problems involving addition | Critical thinking | Question and answer | Adding large numbers in word problems | Chalkboard illustrations | Mk Maths book 6 page 55 P.6 Curr page 156 | |

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| | 4 | OPERATION ON WHOLE NUMBERS | Subtraction of whole number | Subtraction of large whole numbers Example Work out: 1. $\begin{array}{r} 946786 \\ - 423252 \\ \hline 523534 \end{array}$ | -reads and comprehends statements involving subtraction | -subtracts large numbers with out or with regrouping -determines other terms used in subtraction -solves word problems involving subtraction | | | Subtracting large numbers in word problems | Chalkboard illustrations | Mk Maths book 6 page 57. P.6 Curr page 156 |
| | | OPERATION ON WHOLE | Subtraction of whole number in word problem | Word problems involving subtraction Example A dairy processed 6500650 litres of milk and sold 5650945 litres. How many litres were left? | -reads and comprehends statements involving subtraction | -subtracts large numbers with out or with regrouping | creative thinking Problem solving | Explanation | Subtracting large numbers in word problems | Chalkboard illustrations | Mk Maths book 6 page 57 |

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|--|--|---|--------------------------------|---|--|--|--|--|--|---------------------------------|---|-------------------|
| | | | NUMBERS | | $\begin{array}{r} 6500650-5650945 \\ = 849705 \\ \\ 6500650 \\ - 5650945 \\ \hline 849705 \end{array}$ | | - determine s other terms used in subtraction -solves word problems involving subtraction | Co-operation Effective communication Critical thinking | Guided discussion Question and answer Think and pair | | | P.6 Curr page 156 |
| | | 5 | Multiplication of large number | Multiplication of large numbers Example Multiply 1432 x 132 $\begin{array}{r} 1432 \\ \times 132 \\ \hline 2864 \\ 42960 \\ + 143200 \\ \hline 189024 \end{array}$ | -reads mathematical statements of multiplication -reads and complehends problems involving multiplication | - multiplies whole numbers -solves word problems involving multiplication | Answering oral questions Multiplying whole numbers | | | Chalkboard Illustrations | Mk Maths book 6 page 58 Understanding Mathematics book 6 page 47-48. | |

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| | 6 | | Word problem involving multiplication | <p>Word problems in multiplication</p> <p>Example</p> <p>A farmer has 45 cows. Each cow produces 13 litres of milk in a day. How many litres of milk does the farmer get in a week?</p> <p>In a day</p> <p>1 cow gives 13 litres</p> <p>45 cows give $45 \times 13 = 585$ litres</p> <p>In a week (7 days)</p> $\begin{array}{r} 585 \quad 45 \\ \times 7 \quad \times 13 \\ \hline 4095 \quad 135 \\ +450 \\ \hline 585 \end{array}$ | -reads mathematical statements of multiplication -reads and comprehend problems involving multiplication | - multiplies whole numbers -solves word problems involving multiplication | | | Working out word problems involving multiplication | Chalkboard illustrations | Mk Math book 6 page 61 P.6 Curr page 156 |
| | 7 | OPERATION ON WHOLE NUMBERS | Addition and multiplication of number | <p>Addition and multiplication of whole numbers.</p> <p>Example</p> <p>Simplify: $5 + 4 \times 3$</p> $5 + 4 \times 3 = 5 + (4 \times 3)$ $= 5 + 12$ $= 17$ | -reads given mathematical statements | -identifies the operation in given statements -solves problems involving addition and multiplication | creative thinking Problem solving Co-operation Effective communication | Explanation Group work Guided discussion Demonstration | Solving numbers involving addition and multiplication | Chalkboard illustrations | Mk Maths book 6 page 59 P.6 Curr page 156 |

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|---|---|---|---------------------------------|---|--|---|--|--|---|---------------------------------------|--|--|
| | | | | | | | Critical thinking | Question and answer | | | | |
| 7 | 1 | | | Division of large number | Division of large numbers. Example Work out $6360 \div 120$ $6360 \div 120 =$ <div style="text-align: right;">$\begin{array}{r} 53 \\ 120 \overline{) 6360} \\ \underline{600} \\ 360 \\ \underline{- 360} \\ - - - \end{array}$</div> = 53 | -reads and complehend s problems involving division | -carries out division of large numbers -mentions the terms used in division -solves word problems involving division | | | Working out division of large numbers | Chalkboard illustrations | Mk Maths book 6 page 60 P.6 Curr page 157 |
| | | OPERATION ON WHOLE NUMBERS | Word problem involving division | Word problems in division <u>Example</u> A petrol station manager bought 22000litres of motor oil. If she put equal amount of oil in 440 drums, how many litres of oil were in each drum? | -reads and complehend s problems involving division | -carries out division of large numbers -mentions the terms used in division -solves word problems | creative thinking Problem solving Co-operation | Explanati on Group work Guided discussio n | Working out word problems involvin g division | Chalkboard illustrations | Mk Maths book 6 page 61 P.6 Curr page 157 | |

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| | | | | | | involving division | Effective communication | Demonstration | | | | |
| | 2 | | | All operations together (Use of BODMAS) | Use of BODMAS Brackets Of Division Multiplication Addition Subtraction Example Simplify: 18-(4x3)+6 BODMAS 18-12 + 6 18+6-12 24-12 12 | -reads and interprets BODMAS | -applies BODMAS to solve problems involving all operation | Critical thinking | Question and answer | Group work Writing an activity involving BODMAS | Chalkboard illustrations | MkMaths book 6 page 62 Understanding Mathematics book 6 page 54 P.6 Curr page 157 |
| | 3 | OPERATION ON WHOLE | Properties of number | Properties of numbers Commutative property a +b = b + a 4+ 5= 5 + 4 9 9 6 x 3 = 3 x 6 18 = 18 Associative property | -describe the properties of numbers | -proves that the order of numbers doesnot affect the results in addition and | creative thinking Problem solving Co-operation | Explanation discussion | Copying notes. Working out numbers using properties of | Chalkboard illustrations | Mk Maths book 6 Old Edition page | |

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|--|---|--|----------------------|---|--|--|--|--|---|---|--------------------------|---|
| | | | NUMBERS | | $3+(8+9)=(3+8)+9$ $3+17 = 11+9$ $20 \quad 20$ $(3 \times 7) \times 2 = 3 \times (7 \times 2)$ $21 \times 2 = 3 \times 14$ $42 = 42$ | | multiplication -applies distributive property to solve problems | Effective communication Critical thinking | Demonstration Question and answer | numbers | | 54-55 P.6 Curriculum page 157 |
| | | | | Distributive property Examples Simplify using distributive property only. 1) $4 \times 5 + 4 \times 6$ $4(5+6)$ $4(11)$ 4×11 44 2) $(33 \times 10) - (22 \times 10)$ $10(33-22)$ $10(11)$ 10×11 $= 110$ | -describe the properties of numbers | -proves that the order of numbers does not affect the results in addition and multiplication -applies distributive property to solve problems | | | | Working out numbers using distributive property only | Chalkboard illustration | Mk Maths Book 6 Old Edition page 55. P.6 Curriculum page 157 |
| | 4 | | NUMBERS AND SEQUENCE | Divisibility | Divisibility tests by 2, 3, 4, 5, 8, 9, 10. 1) A number is divisible by 2 if the last digit of a given number is an even number. 0, 2, 4, 6, 8. 2) A number is divisible by 3 when the sum of the digits is a multiple of 3. | -reads statements correctly | -copies notes about divisibility tests -tests numbers for divisibility by 2, 3, 4 | creative thinking Problem solving Co-operation | Explanation Guided discovery discussion | Writing notes Identifying correct numbers for learnt | Chalkboard illustrations | Mk Maths book 6 page 142 P.6 Curriculum |

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| | | | | | 3) A number is divisible by 4 when the last two digits of the given number are divisible by 4. 4) A number is divisible by 5 when the last digit is 0 or 5. 5) A number divisible by 6 when it is divisible by 2 and 3 e.t.c. | | 5, 8, 9 and 10 -identifies numbers divisible by any given numbers | Effective communication Critical thinking | Question and answer | divisibility tests | | page 159 |
| E.L.O: - the learner forms various forms of patterns and sequences -relates and applies simple computation skills in real life situations | | | | | | | | | | | | |
| | 5 | | Developing number patterns | Types of numbers 1) <u>Whole numbers</u> Whole numbers begin with 0. {0,1,2, 3,...} 2) <u>counting numbers</u> Counting numbers begin from 1. {1,2,3,.....} Another name for counting numbers is <u>natural</u> . 3) <u>Even numbers</u> These are exactly divisible by 2. {0,2, 4,6,...}The first number is 0. 4) <u>Odd numbers</u> These numbers are not exactly divisible by 2. {1,3,5,7,...} | -reads and describes types of numbers | -identifies types of numbers -lists sets of given types of numbers in a given range | creative thinking Problem solving Effective communication Critical thinking | Guided discussion | Naming numbers Listing numbers | Chalkboard illustrations | Mk Maths book 6 Old Edition on pg 112 Understanding Maths book 6 page 66 | |

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| | | | | | | | | | | | P.6 Curr page 159 |
| | | NUMBE R PATTE RNS AND SEQUE NCE | Developing number patterns | Types of numbers <u>Prime numbers:</u> These are numbers with only 2 factors 1 and itself. {2,3,5,7,11.....}. 2 is the only/even prime number <u>Composite numbers</u> These are numbers with more than 2 factors.{4,6,8,9,10,12,...} | -describes the types of numbers | -identifies and writes types of numbers -lists and names types of numbers -finds triangular numbers using a formular | creative thinking Problem solving Effective commun ication Critical thinking | Explanati on Guided discovery discussio n Question and answer | Naming different types of number s Listing different types of number s | Chalkb oard illustrat ions | Mk Math s book 6 Old Editi on page 112 Unde rstan ding Math emati cs book 6 page 66 P.6 Curr page 159 |

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| | | | | | | | | | | | |
|--|---|---------------|----------------------------|---|---------------------------------|--|--|--|----------------|-------------|----------|
| | 7 | | | Types of numbers Triangular numbers When you add consecutive natural numbers beginning with 1, you get a triangular number 1 = 1 1+2 = 3 1+2+3 = 6 1+2+3+4 = 10 1+2+3+4+5 = 15 1+2+3+4+5+6 = 21 1+2+3+4+5+6+7=28 {1,3,6,10,15,21,28,..} Finding triangular numbers Example Find the fifth triangular number. Formular used: $\frac{n(n+1)}{2}$ n representing the number $\frac{5(5+1)}{2}$ $\frac{5(6)}{2}$ 5x3 = 15 | -describes the types of numbers | -identifies and writes types of numbers -lists and names types of numbers -finds triangular numbers using a formular | creative thinking Problem solving Effective communication Critical thinking | Explanati on Guided discovery discussio n Question and answer | | | |
| | 7 | NUMBE R PATTE | Developing number patterns | Types of numbers Square number: | -describes square numbers | -reads and writes | creative thinking | Explanati on | Finding square | Chalkb oard | Mk Maths |

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|---|---|--|----------------------------|---------------|--|--|---|--|--|---------------------------------------|--------------------------|---|
| | | | RNS AND SEQUENCE | | A square is a product of a number by itself Examples 1×1 , 2×2 , 3×3 , 4×4 , 1, 4, 9, 16, 5×5 25 Find the square of 16. $16 = 16^2$ $= 16 \times 16$ $= 256$ | | square numbers -finds square numbers of whole numbers -finds the square of fractions and decimals | Problem solving Effective communication Critical thinking | Guided discovery discussion Question and answer | number s | illustrations | book 6 page 95 P.6 Curr page 159 |
| 8 | 1 | | NUMBERS AND SEQUENCE | Square number | Square numbers of fractions. Examples Find the square of: 1) $\frac{1}{2} = (\frac{1}{2})^2$ $= \frac{1}{2} \times \frac{1}{2}$ $= \frac{1}{4}$ 2) $0.6 = (0.6)^2$ $= 0.6 \times 0.6$ $= \frac{6}{10} \times \frac{6}{10}$ $= \frac{36}{100}$ $= 0.36$ | -describes square numbers | -reads and writes square numbers -finds square numbers of whole numbers -finds the square of fractions and decimals | creative thinking Problem solving Effective communication Critical thinking | Explanation Guided discovery discussion Question and answer | Finding squares of fractions | Chalkboard illustrations | Mk Maths book 6 page 95 P.6 Curr page 159 |
| | 2 | | | Square roots | Finding square roots of whole numbers Example Find the square root of 36. Method: Prime factorize | -reads and comprehends mathematical problems | -identifies the symbol for the square root | | | Finding square roots of whole numbers | Chalkboard illustration | Mk Maths book 6 |

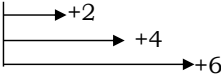
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| | | | | <div><div><div><div>2</div><div>36</div></div><div><div>2</div><div>18</div></div><div><div>3</div><div>9</div></div><div><div>3</div><div>3</div></div></div><div>1</div><div>(2x2)x(3x3)</div><div>2x3</div><div>= 6 OR</div><div>$\sqrt{2 \times 2 \times 3 \times 3}$</div><div>$\sqrt{2^2 \times 3^2}$</div><div>2 x 3</div><div>6</div></div> | | -finds the square root of whole numbers | | | | | page 96 P.6 Curr page 159 |
| 3 | NUMBERS AND SEQUENCES | Square roots | <div>Square roots of fractions</div> <div>Examples</div> <div>Find the square root of:</div> <div><div><div><div>1) $\frac{4}{9} = \sqrt{\frac{4}{9}}$</div><div><div><div>2</div><div>4</div></div><div><div>2</div><div>2</div></div><div>1</div></div><div>(2x2)</div><div>2</div></div><div><div><div>3</div><div>9</div></div><div><div>3</div><div>3</div></div><div>1</div></div><div>(3x3)</div><div>3</div></div><div>$\sqrt{\frac{4}{9}} = \frac{2}{3}$</div></div> | -reads and interprets given statements | <div>-changes mixed fractions to improper fraction</div> <div>-finds the square root of fractions</div> | creative thinking | Explanation Guided discussion Question and answer Effective communication Critical thinking | Finding square roots of fractions | Chalkboard illustrations | MK Maths book 6 pg 99-100 P.6 Curr page 159 | |
| | 3 | | <div>$2\sqrt{2\frac{1}{4}} = \sqrt{4 \times 2 + 1}$</div> <div>$= \sqrt{\frac{9}{4}}$</div> <div><div><div>3</div><div>9</div></div><div><div>3</div><div>2</div></div><div>2</div></div> | | | | | | | | |

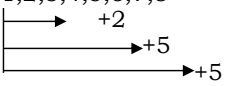
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| | | | | $\begin{array}{r l} \square & \square \\ A = s \times s & 2 \times 16 \\ S^2 = 16 & 2 \times 8 \\ \sqrt{S^2} = \sqrt{16} & 2 \times 4 \\ & 2 \times 2 \\ S = 4\text{cm} (2 \times 2)(2 \times 2) & \\ & 2 \times 2 \\ & = 4 \end{array}$ <p>b) Calculate its perimeter P = add all sides = S + S + S + S = 4cm + 4cm + 4cm + 4cm = 8 + 8 = 16cm</p> | | -writes given statements -applies square root knowledge to solve word problems | Creative thinking | Question and answer | problems | | P.6 Curr page 159 | |
| | 5 | NUMBERS AND SEQUENCE | | <p>Cubic number A cubic number is obtained when a given number is multiplied by itself three times. Example Find the cube of 5. $5 = 5^3$ $= 5 \times 5 \times 5$ $= 25 \times 5$ $= 125$</p> | -describes cubic numbers | -finds cubic numbers -find the next number in a given sequence | | | Finding cubic numbers | Chalkboard illustrations | Mk Maths book 6 Old Edition P.6 Curr page 159 | |
| | | | Finding missing number | Finding missing numbers in a given pattern Examples Find the next number in the sequence. | -describes cubic numbers | -finds cubic numbers -find the next | Critical thinking | Explanation | Completing number sequences | Chalkboard illustrations | Mk Maths book 5 Old | |

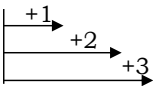
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| | | | | <p>1) 1, 3, 6, 10, 15, 21, 28 $+2+3+4+5+6+7$ 2) 25, 24, 21, 16, 9 25, 24, 21, 16, 9 $-1 -3 -5 -7$</p> | | number in a given sequence | Effective communication | Guided discovery | | | <p>Edi on pg 113</p> <p>P.6 Curr page 159</p> | |
| 6 | | Finding consecutive even number | <p>Finding consecutive even numbers. Pattern to follow. 0, 1, 2, 3, 4, 5, 6, 7, 8,</p>  <p>Example The sum of three consecutive even numbers is 18. Find the numbers Let the 1st number be n. $n, n+2, n+4$ $n+n+2+n+4 = 18$ $n+n+n+2+4 = 18$ $3n + 6 = 18$ $3n + 6 - 6 = 18 - 6$ $\frac{3n}{3} = \frac{12}{3}$ $n = 4$</p> | <p>-describes even numbers</p> <p>-reads and comprehend statements</p> | <p>-mentions even numbers</p> <p>-analyses the pattern for finding even numbers</p> <p>-finds the consecutive even numbers</p> | Problem solving | Question and answer | <p>discussio n</p> <p>Question and answer</p> | <p>Practicin g the pattern</p> <p>Finding consecu tive even number s</p> | <p>Chalkb oard illustrat ions</p> | <p>MK Math s book 6 pg</p> <p>P.6 Curr page 159</p> | |

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| | | | | $n, n+2, n+4$ $4, 4+2, 4+4$ $4, 6, 8$ The numbers are 4, 6 and 8 | | | | | | | |
| | | NUMBERS AND SEQUENCE | Finding consecutive odd number | Finding consecutive odd numbers. Pattern to follow $1, 2, 3, 4, 5, 6, 7, 8$  Example The sum of three consecutive numbers is 15. Find the numbers. Let the 1 st number be y. Y, y+2, y+4 $y+y+2+y+4 = 15$ $y+y+y+2+4 = 15$ $3y + 6 = 15$ $3y + 6 - 6 = 15 - 6$ $\frac{3y}{3} = \frac{9}{3}$ $y = 3$ y, y+2, y+4 3, 3+2, 3+4 3 5 7 The numbers are 3, 5 and 7 | -describes odd numbers -reads and comprehend statements | -mentions odd numbers -analyses the pattern for finding odd numbers -finds consecutive odd numbers | Critical thinking Effective communication Problem solving Creative thinking | Explanation Guided discovery discussion Question and answer | Finding consecutive odd numbers | Chalkboard illustrations | Mk Maths book 6 pg P.6 Curriculum page 159 |
| | 7 | NUMBERS AND SEQUENCE | Finding consecutive | Finding natural numbers. Pattern to follow | -describes natural numbers | -mentions natural numbers | Critical thinking | Explanation | Finding consecutive | Chalkboard | Mk Maths |

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| | | RNS AND SEQUENCE | natural number | <p>1,2, 3, 4,5,6,7,8,...</p>  <p>Example The sum of three consecutive numbers is 15. Find the numbers. Pattern to follow Let the 1st number be k. K, k+1, k+2 $K+K+1+k+2 = 15$ $K+k+k+1+2 = 15$ $3k + 3 = 15$ $3k + 3 - 3 = 15 - 3$ $\frac{3k}{3} = \frac{12}{3}$ $K = 4$ K, k+1, k+2 4, 4+1, 4+2 4, 5, 6 The numbers are 4,5 and 6</p> | | -analyses the pattern for finding counting numbers -finds consecutive natural numbers | Effective communication Problem solving Creative thinking | Guided discovery discussion Question and answer | natural/ counting numbers | illustrations | book 6 page P.6 Curr page 159 |
| 9 | 1 | NUMBER PATTERNS AND SEQUENCE | Multiples | <p>Multiple: Is the product of a given number and any other whole number greater than zero. Listing common multiples Examples List the multiples of 4 between 10 and 20 1x4, 4x2, 4x3, 4x4</p> | -describes a multiple -mentions multiples | -finds multiples of whole numbers -finds the lowest common Multiples | Critical thinking Effective communication | Explanation Guided discovery | Listing multiples Finding lowest common multiples(LCM) | Chalkboard illustrations | MK Maths book 6 page 76 |

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| | | | | <p>4, 8, 12, 16</p> <p>4x5</p> <p>20</p> <p>{12, 16}</p> <p>M₄ between 10 and 20 = {12, 16}</p> <p>Lowest common multiple (LCM)</p> <p>Example</p> <p>Find the LCM of 4 and 6.</p> <p>M₄={4,8,<u>12</u>,16,20,<u>24</u>,28...}</p> <p>M₆={6,<u>12</u>,18,<u>24</u>,30,36,...}</p> <p>Common multiples {12, 24} LCM = {12}</p> | | of given numbers | <p>Problem solving</p> <p>Creative thinking</p> | <p>discussion</p> <p>Question and answer</p> | | | P.6 Curr page 159 | |
| | 2 | | Factors | <p>Factors</p> <p>Listing factors</p> <p>Example</p> <p>List all factors of 12.</p> <p>1x12</p> <p>2x9</p> <p>3x6</p> <p>F₁₂={1,2,3,6,9,12}</p> <p>Common factors, lowest common factor (LCF) and Highest Common factors(HCF)</p> <p>Examples</p> <p>Find the highest common factor of 15 and 12.</p> <p>F₁₅ = 1x15 F₁₂=1x2</p> <p>3x5 2x6</p> <p>F₁₅={<u>1</u>,3,5,15}</p> | <p>-describes the term factors</p> <p>-reads given statements</p> | <p>-finds factors of given numbers</p> <p>Finds the HCF and LCF</p> <p>-lists factors of numbers</p> | <p>Critical thinking</p> <p>Effective communication</p> <p>Problem solving</p> <p>Creative thinking</p> | <p>Explanation</p> <p>Guided discovery</p> <p>discussion</p> <p>Question and answer</p> | <p>Copying notes about factors.</p> <p>Finding LCF, HCF and common factors of given numbers.</p> | <p>Chalkboard illustrations</p> | <p>Mk Maths book 5 Old Edition page 101</p> <p>Mk Maths book 6 page 81</p> | |

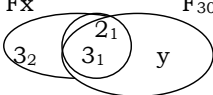
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|---|---|------------------------|---|---|---|--|---|--------------------------------------|--|---|----------------------------|
| | | | | $F_{12}=\{1,2,3,4,6,12\}$ a) Common factors $\{1,3\}$ b) HCF of 12 and 15= $\{3\}$ c) LCF of 12 and 15 = $\{1\}$ | | | | | | | P.6 Curr page 159 |
| 3 | NUMBE R PATTE RNS AND SEQUE NCE | Prime factorisation | Prime factorization: is to find factors of a multiple using prime numbers. Example Prime factorise 24 Ladder Method $\begin{array}{r} 2 \overline{) 24} \\ 1 \overline{) 12} \\ 2 \overline{) 6} \\ 3 \overline{) 3} \\ \hline 1 \end{array}$ Factor Tree $\begin{array}{c} 24 \\ \swarrow \searrow \\ 2 \quad 12 \\ \quad \swarrow \searrow \\ \quad 2 \quad 6 \\ \quad \quad \swarrow \searrow \\ \quad \quad 2 \quad 3 \end{array}$ The answer is written in 1)Multiplication $2 \times 2 \times 2 \times 3$ 2)powers or exponents $2^3 \times 3$ 3)subscripts or set form $2_1, 2_2, 2_3, 3_1$ | -describes the term prime factorization | -mentions different methods of prime factorization -prime factorizes given numbers - represent s prime factors on a venn diagram -finds the LCM and GCF using prime factors | Critical thinking Effective communi cation Problem solving Creative thinking Co- operatio n | Explanati on Guided discovery discussio n Question and answer | Finding prime number s | Chalkb oard illustrat ions | Mk Math s book 6 pg 82 P.6 Curr page 159 | |
| 4 | NUMBE R PATTE RNS AND | | Representing prime factors on a venn diagram. Example | -describes the term prime factorization | -mentions different methods of prime factorization | Critical thinking | Explanati on Guided discovery | Identifyi ng common factors | A chart showin g prime factors on Venn- | Mk math s bk page 86. | |

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| | | SEQUENCE | | <p>Represent prime factors of 30 and 36 on a venn diagram.</p> <div><div><div>2</div><div>36</div></div><div><div>2</div><div>18</div></div><div><div>3</div><div>9</div></div><div><div>3</div><div>3</div></div></div> <div><div><div>2</div><div>30</div></div><div><div>3</div><div>15</div></div><div><div>5</div><div>5</div></div></div> <div>1</div> <div>{2₁,2₂,3₁,3₂}</div> <div><div><div><div>F₃₀</div><div><div><div>5₁</div><div>2₁</div><div>3₁</div></div></div><div><div><div>2₂</div><div>3₂</div></div></div><div><div><div>F₃₆</div><div>3₂</div></div></div></div><div>{2₁,3₁,5₁}</div></div></div> | | <p>-prime factorizes given numbers - represents prime factors on a venn diagram -finds the LCM and GCF using prime factors</p> | <p>Effective communication Problem solving Creative thinking Co-operation</p> | <p>discussion Question and answer</p> | <p>Representing prime factors on Venn-diagrams.</p> | <p>diagrams Chalkboard illustrations</p> | <p>P.6 Curr page 159</p> |
| 4 | NUMBER PATTERNS AND SEQUENCE | <p>Prime factorization.</p> | <p>Finding the lowest common multiple and greatest common factor on a venn diagram. Example; Using the given venn diagram, find the LCM and HCF of 18 and 12.</p> <div><div><div><div>F₁₈</div><div><div><div>3₂</div><div>2₁</div><div>3₁</div></div></div><div><div><div>2₂</div><div>3₂</div></div></div></div><div>F₁₂</div></div><p>LCM is the union set;</p></div> | <p>-describes the term prime factorization</p> | <p>-mentions different methods of prime factorization -prime factorizes given numbers - represents prime factors on a venn diagram</p> | <p>Creative thinking Effective communication Critical thinking Problem solving</p> | <p>Explanation Illustration Guided discovery Problem solving</p> | <p>Finding LCM and HCF using a Venn diagram</p> | <p>A chart showing prime factors on a Venn diagram Chalk board illustrations</p> | <p>Mk maths book 6 page 87 P.6 Curr page 159</p> | |

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| | | | | $F_{18} \cup F_{12} = \{3_2, 2_1, 3_1, 2_2\}$ $= 3 \times 2 \times 3 \times 2$ $= 6 \times 6$ $= 36$ $\text{LCM} = 36$ $\text{HCF is the intersection set}$ $F_{18} \cap F_{12} = \{2^1, 3_1\}$ $= 2 \times 3$ $= 6$ $\text{GCF} = 6$ | | -finds the LCM and GCF using prime factors | | | | | |
| 5 | NUMBERS AND SEQUENCE | Prime factorization | <p>Finding the unknown on venn diagrams</p> <p>Example</p> <p>Study the venn diagram and answer questions that follow</p>  <p>Find the value of:</p> <p>1) x</p> $F_x = \{3_2, 3_1, 2_1\}$ $= 3 \times 3 \times 2$ $= 9 \times 2$ $= 18$ $\underline{X = 18}$ <p>2) y</p> $F_y = \{2, 3, y\} = 30$ $2 \times 3 \times y = 30$ | -reads and interprets given information. | -draws venn diagrams -studies information on venn diagrams -uses venn diagrams to find the unknown | Creative thinking Effective communication Critical thinking Problem solving | Explanation Illustration Guided discovery Problem solving | Finding unknown values on a venn diagram | Chalkboard illustration | Mk Maths book 6 page 88-89 P.6 Curr page 159 | |

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| | 6 | NUMBE R PATTE RNS AND SEQUE NCE | Prime factorization | 2×3 $Y = 5$ Finding prime factorised numbers. Examples 1)Find the number that has been prime factorised $\{2_1, 2_2, 2_3, 3_1\}$ $= 2 \times 2 \times 2 \times 3$ $= 4 \times 6$ $= 24$ (2) If $2 \times 3 \times y = 30$, find y. $2 \times 3 \times y = 30$ $\frac{6y}{6} = \frac{30}{6}$ $y = 5$ 3) $2^{2x} \times 2 = 32$, find x. Method: Prime factorize 32, then solve $\begin{array}{r} 2 \mid 32 \\ 2 \mid 16 \\ 2 \mid 8 \\ 2 \mid 4 \\ 2 \mid 2 \\ \hline 1 \end{array}$ $2^{2x} \times 2 = 32$ $2^{2x} \times 2^1 = 2^5$ $2x + 1 = 5$ $2x + 1 - 1 = 5 - 1$ $\frac{2x}{2} = \frac{4}{2}$ | -reads and comprehend statements . | -finds the value of the unknown -solves for the prime factorized multiple | Creative thinking Effective communication Critical thinking Problem solving | Explanati on Illustrati on Guided discovery Problem solving | Finding missing numbers | Chalkb oard illustrations | MK Math s book 6 page 83 P.6 Curr page 159 | |

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|----|---|----------------------|---|---|-------------------------------------|---|---|----|---|--------------------------|--|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|--|--|--|--------------------------|---|
| | | | | X = 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | NUMBERS AND SEQUENCE | Application of lowest Common Multiple (LCM) in word problem. | Application of lowest common multiple(LCM) in word problems with or without remainders. Example Find the smallest number which when divided by 4 of 9 or 12 leaves 3 as a remainder. <table><tr><td>2</td><td>4</td><td>9</td><td>12</td></tr><tr><td>2</td><td>2</td><td>9</td><td>6</td></tr><tr><td>3</td><td>1</td><td>9</td><td>3</td></tr><tr><td>3</td><td>1</td><td>3</td><td>1</td></tr><tr><td></td><td>1</td><td>1</td><td>1</td></tr></table> $2 \times 2 \times 3 \times 3 + 3$ $4 \times 9 + 3$ $36 + 3$ $= 39$ | 2 | 4 | 9 | 12 | 2 | 2 | 9 | 6 | 3 | 1 | 9 | 3 | 3 | 1 | 3 | 1 | | 1 | 1 | 1 | -reads, comprehends and interprets statements | -applies the LCM knowledge to solve word problems | Creative thinking Effective communication Critical thinking Problem solving Interpretation | Explanation Illustration Guided discovery Problem solving | Solving word problems involving lowest common multiple (LCM) | Chalkboard illustrations | Understanding Mathematics book 6 P.6 Curr page 159 |
| 2 | 4 | 9 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 9 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 9 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1 | | Application of lowest Common Multiple(LCM) and Greatest Common Factor (GCF) in word problem | Word problems involving GCF, LCM and given numbers. Example The lowest common Multiple(LCM) of two numbers is 144, their greatest common factor (GCF) is 12 and one of the numbers is 48. Find the other number. Let the other number be t | -reads and comprehend word problems | -solves word problems involving GCF and LCM to find missing numbers | | | Solving word problems involving greatest common factor and lowest common multiple | Chalkboard illustrations | Mk Maths book 6 P.6 Curr page 159 | | | | | | | | | | | | | | | | | | | | |

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|--|---|----------------------|--|--|--|---|--|--|-------------------------------------|--------------------------|--|--|
| | | | | $1^{\text{st}} \text{ no.} \times 2^{\text{nd}} \text{ no.} = \text{LCM} \times \text{HCF}$ $48 \times t = 144 \times 12$ $\frac{48t}{48} = \frac{144 \times 12}{48}$ $t = 36$ The other number is 36. | | | | | | | | |
| | 2 | NUMBERS AND SEQUENCE | Values of powers of number | Finding values of powers of numbers Examples 1) Find the value of 2^4 $2^4 = 2 \times 2 \times 2 \times 2$ $= 4 \times 4$ $= 16$ 2) What is the value of 7^3 ? $7^3 = 7 \times 7 \times 7$ 49 $= 49 \times 7$ $\frac{49}{1} \times 7$ $= 343$ 343 | -reads given mathematical statements | - interprets mathematical statements -finds values of powers - multiplies numbers | Creative thinking Effective communication Critical thinking Problem solving Interpretation | Explanation Illustration Guided discovery Problem solving | Finding values of powers | Chalkboard illustrations | Mk Maths book 6 page 84 P.6 Curr page 159 | |
| | 3 | | Expressing a number as a product of another number | Writing numbers as powers of given multiples Examples 1) Write 32 in powers of 2. $\frac{2}{2} \mid \frac{32}{16}$ $\frac{2}{2} \mid \frac{8}{4}$ $\frac{2}{2} \mid \frac{4}{2}$ $\frac{2}{2} \mid \frac{2}{1}$ $2 \times 2 \times 2 \times 2 \times 2$ $32 = 2^5$ | -reads and interprets given statements | -writes given numbers in power form -prime factorize given numbers in power form | Creative thinking Effective communication Critical thinking Problem solving | Explanation Illustration Guided discovery Problem solving | Writing given numbers in power form | Chalkboard illustrations | Mk Maths book 6 page 84 P.6 Curr page 159 | |

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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | <p>2) Write 64 in powers of 4.</p> $ \begin{array}{r l} 4 & 64 \\ \hline 4 & 16 \\ \hline 4 & 4 \\ \hline & 1 \end{array} $ <p>4 x 4 x 4</p> <p>64 = 4³</p> | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|