



MATHEMATICS SCHEME OF WORK FOR PRIMARY SIX TERM TWO

EXPECTED LEARNING OUTCOME: The learner solves problems involving fractions and relates them to real life situations.

| W K | P D | T H E M E | T O P I C | S U B- T O P I C | C O M P E T E N C E S | | C O N T E N T | I N D I C A T O R S O F L I F E S K I L L S & V A L U E S | M E T H O D S/ T E C H N I Q U E S | A C T I V I T Y | I N S. M A T | R E F | R E M |
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| | | | | | S U B J E C T | L A N G U A G E | | | | | | | |
| 1 | 1 | N U M E R A C Y | F R A C T I O N S | Defini tion of a fractio n Types of fractio ns chang ing impro per | The learner: - defines a fraction. - changes mixed fraction to improper fraction. | - names and describes fractions - reads statement - writes notes | A fraction is a part of a whole. Types of fractions -Proper fractions e.g. $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$ e.t.c. -Improper fractions e.g $\frac{3}{2}$, $\frac{4}{3}$ e.t.c -Mixed fraction e.g $1\frac{3}{4}$, $5\frac{7}{9}$ e.t.c. -Decimal fractions e.g. 0.4, 1.35 e.t.c -Equivalent fractions e.g $\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$ e.t.c. Recurring fractions e.g. 0.33.... -Changing improper fractions to mixed fractions. Example. | Effective communication fluency confidence Problem solving taking decision making choice Values Co- operation | Explan ation Guided discus sion Think, pair & share | Namin g types of fractio ns - copyin g notes - changi ng improp er | Chalk board illustr ation s Real objec ts | Mk. Maths bk. 5 page 116 P.6 curr. page 162 | |

For more schemes of work, visit www.uganda.madpath.com

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| | | | fractions to mixed fractions | | | 1. Change $\frac{9}{4}$ to a mixed fraction. Method: Divide the numerator by the denominator 2 $\frac{9}{4} = \frac{4 \cancel{8} + 1}{4}$ $= 2 \frac{1}{4}$ | appreciation | | fractions to mixed fractions | | |
| 2 | | | Changing mixed fractions to improper fractions | The learner: - relates improper fractions and mixed fraction. - changes mixed fractions to improper fraction. | - reads statements - writes an activity involving changing mixed fractions to improper fractions. | Changing mixed fractions to improper fractions. Examples Change $4 \frac{2}{3}$ to improper fraction Method: $\frac{D \times W + N}{D}$ $4 \frac{2}{3} = \frac{3 \times 4 + 2}{4}$ $= \frac{12 + 2}{4}$ $= \frac{14}{4}$ | Effective communication fluency Problem solving taking decision Values Co-operation | Explanation Discussion Think, pair & share | Changing mixed fractions to improper fractions | Chalk board illustrations | Mk Maths book 5page 117 Primary Six curriculum page 162 |
| 3 | | | Expressing recurring fractions as | The learner: - identifies repeated digits - expresses recurring | - names place values of repeated figures. | Writing recurring fraction as common fractions. Example Express 0.33..... as a common fraction. Let the no be y. $Y = 0.33....$ $10x y = 0.33.... \times 10$ | Effective communication fluency Problem solving | Question and answer | Changing recurring fractions as | Chalk board illustrations | Mk Maths book 6 page 138 |

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| | | | comm on fractions | fractions as common fractions | - reads the key words. - pronounce s the key words. | $10y = 3.33\dots$ $10y=3.33\dots$ $-y = -0.33\dots$ $y = \frac{3}{10}$ $y = \frac{1}{3}$ | taking decision Values Co-operation | | commo n fractions in the lowest terms | (old edition) P.6 curr. pg 152,163,164 |
| 4 | | F R A C T I O N S | Findin g equivalent fractions | The learner: - finds the next equations fractions. - finds the H.C.F - applies the H.C.F. to reduce given fractions. - identifies common factors. | - reads statements - pronounce s the key words. - writes fractions. | Finding equivalent fractions Examples Write the next equivalent fraction in $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} =$ $2 \times 4 = 8$ $3 \times 4 = 12$ $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$ | Effective communication fluency Problem solving making choice Values appreciation | Explan ation Discus sion Questi on and answer Market stall | Finding equivalent fractions Chalk board illustrations | Mk maths book 6 page 109 P.6 curr. page 162, 163, 164 |
| 4 | | | Redu cing fractions | The learner: - finds the next equivalent fractions. | - reads statements - pronounce s the key words | Reducing fractions Example Reduce 8/12 to the lowest terms. $8 = 8 \div 2 = 4 \div 2 = 2$ $12 \div 2 = 6 \div 2 = 3$ | Effective communication confidence | Explan ation Discus sion | Finding highest common factors Chalk board illustrations | Mk Maths book 5 page 118 |

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|---|----|-----------|--------------------|--|--|--|---|-------------------------------------|--|--|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|---------------------------|---|
| | | | | - finds the HCF - applies the HCF to reduce given fractions. identifies common factors | - writes fractions | So $2 \times 2 = 4$ and 4 is the HCF of 8 and 12. $8 \div 4 = 2$ $12 \div 4 = 3$ | Problem solving taking decision Values Co-operation appreciation | Question and answer Market stall | Dividing by the highest common factors to reduce fractions | Primary Six curriculum page 162 | | | | | | | | | | | | | | | | | |
| 5 | | FRACTIONS | Ordering fractions | The learner: - finds the lowest common multiples. - calculates the values of fractions. - arranges fractions in both ascending and descending order | - reads statements - pronounces the key words - writes fractions | Ordering fractions -Arranging fraction in either ascending or descending order. Example. Arrange $\frac{3}{4}$, $\frac{2}{3}$, $\frac{1}{2}$ in ascending order. $\frac{3 \times 3}{4}$, $\frac{2 \times 4}{3}$, $\frac{1 \times 6}{2}$ LCM <table style="display: inline-table; border-collapse: collapse;"> <tr><td style="border-right: 1px solid black; border-bottom: 1px solid black;">2</td><td style="border-right: 1px solid black; border-bottom: 1px solid black;">4</td><td style="border-right: 1px solid black; border-bottom: 1px solid black;">3</td><td style="border-bottom: 1px solid black;">2</td></tr> <tr><td style="border-right: 1px solid black;">2</td><td style="border-right: 1px solid black;">2</td><td style="border-right: 1px solid black;">3</td><td>1</td></tr> <tr><td style="border-right: 1px solid black;">3</td><td style="border-right: 1px solid black;">1</td><td style="border-right: 1px solid black;">3</td><td>1</td></tr> <tr><td style="border-right: 1px solid black;">1</td><td style="border-right: 1px solid black;">1</td><td style="border-right: 1px solid black;">1</td><td></td></tr> </table> $9, 8, 6$ 12 $9, 8, 6$ $2 \times 2 \times 3$ Order: $4 \times 3 = 12$ $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}$ | 2 | 4 | 3 | 2 | 2 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Guided discovery Market stall Question and answer | Arranging fractions in required order. | Chalk board illustrations | Mk Maths book page 119 Primary Six curriculum page 162 |
| 2 | 4 | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | on | FRA | Operation | The learner: | - reads fractions | Addition and subtraction of fractions with different denominators | Effective communication | Explanation | Adding and subtraction | Chalk board illustration Mk. Maths book 6 | | | | | | | | | | | | | | | | | |

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| | | | | | <p>Examples</p> <p>Simplify:</p> $\frac{1}{2} + \frac{2}{3}$ <p>LCM</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>2</td><td>2</td><td>3</td></tr> <tr><td>3</td><td>1</td><td>3</td></tr> <tr><td></td><td>1</td><td>1</td></tr> </table> <p style="text-align: center;">x 3= 6</p> $\frac{1 \times 3 + 2 \times 2}{2 \times 3}$ $\frac{1 \times 3 + 2 \times 2}{6} = \frac{3 + 4}{6}$ $= \frac{7}{6}$ <p style="margin-left: 2em;">1 rem 1</p> $= 1 \frac{1}{6}$ <p>2. $\frac{4}{5} - \frac{1}{3}$</p> <p>LCM</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>3</td><td>5</td><td>3</td></tr> <tr><td>5</td><td>5</td><td>1</td></tr> <tr><td></td><td>1</td><td>1</td></tr> </table> <p style="text-align: center;">3x5=15</p> $\frac{4 \times 3 - 1 \times 5}{5 \times 3}$ $\frac{4 \times 3 - 1 \times 5}{15}$ $\frac{12 - 5}{15} = \frac{7}{15}$ | 2 | 2 | 3 | 3 | 1 | 3 | | 1 | 1 | 3 | 5 | 3 | 5 | 5 | 1 | | 1 | 1 | <p>confidence</p> <p><u>Problem solving</u></p> <p>taking decision</p> <p><u>Values</u></p> <p>Co-operation appreciation</p> | <p>Guided discovery</p> <p>Gallery walk</p> <p>Question and answer</p> | <p>adding fractions with different denominators</p> <p>Finding LCM</p> <p>Simplifying fractions of different addition and subtraction</p> | <p>ation s</p> | <p>page 106</p> <p>Primary Six curriculum page 162</p> |
| 2 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 7 | F R A C T I O N | Addition and subtraction of mixed fractions | The learner: - changes mixed fractions to improper fractions. - simplifies mixed fractions in addition and subtraction | - reads fractions - writes fractions | <p>Simplifying mixed fractions in addition and subtraction.</p> <p>Examples Simplify:</p> <p>1. $1\frac{1}{2} + 3\frac{1}{4}$ $\frac{1 \times 2 + 1}{2} + \frac{3 \times 4 + 1}{4}$ $\frac{3 \times 2 + 13 \times 1}{2 \quad 4}$ $\frac{3 \times 2 + 13 \times 1}{4} \quad \text{LCM}$ $\frac{6 + 13}{4} \quad \begin{array}{r l} 2 & 2 & 4 \\ 2 & 1 & 2 \\ & 1 & 1 \end{array}$ $= 4 \text{ rem } 3$ $= 4\frac{3}{4}$ </p> <p>2. $4\frac{1}{2} - 1\frac{5}{6}$ $\frac{2 \times 4 + 1}{4} - \frac{6 \times 1 + 5}{6}$ $\frac{9 \times 3 - 11 \times 2}{4 \quad 6} \quad \text{LCM}$ $\frac{9 \times 3 - 11 \times 2}{12} \quad \begin{array}{r l} 2 & 4 & 6 \\ 2 & 2 & 3 \\ 3 & 1 & 3 \\ & 1 & 1 \end{array}$ $\frac{27 - 22}{12}$ $= 5$ </p> | <p>Effective communication confidence</p> <p>Problem solving taking decision</p> <p>Values Co-operation appreciation</p> | <p>Explanation</p> <p>Discussion</p> <p>Question and answer</p> <p>Think, pair & share</p> | <p>Adding and subtracting mixed fractions</p> <p>Chalk board illustrations</p> | <p>Mk. Maths book 6 page 106</p> <p>Primary Six curriculum page 162</p> |
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| | | | | | | 12 =12 | | | | | | |
| 2 | 1 | F R A C T I O N | Combined addition and subtraction of fractions | The learner: - solves fractions in word problems in addition and subtraction | - reads and interprets statements - writes notes - explains the relationship between addition and subtraction | Simplifying fractions with combined operations of addition and subtraction. Example Simplify: 1. $\frac{1}{2} - \frac{2}{3} + \frac{1}{5}$ $\frac{1 \times 15}{2} + \frac{1 \times 6}{5} - \frac{2 \times 10}{3}$ LCM $\frac{(1 \times 15) + (1 \times 6) - (2 \times 10)}{30}$ $\frac{15+6-20}{30}$ $\frac{21-20}{30}$ $= \frac{1}{30}$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Discussion Question and answer Think, pair & share | Finding lowest common factor - solving fractions | Chalk board illustrations | Understanding Maths book page 108 Primary Six curriculum page 162 | |
| | 2 | F R A C T I O N S | Addition and subtraction of fractions in word | The learner: - solves fractions in words problems in addition and subtraction. - adds fractions | - reads and interprets statements - writes notes - explains the | Addition and subtraction of fractions in word problems. Examples 1. A man used three quarters of his Shamba grow cocoa, a half to grow peas and two thirds to grow coffee. Find the Total fraction of the whole land used. | Effective communication confidence Problem solving taking decision | Explanation Discussion | - Solving fractions in word problems involving | | Revision Maths for upper primary page 30 | |

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| | | | problems | - subtracts fractions | relationship between addition and subtract. | $\frac{3}{4} + \frac{1}{2} + \frac{2}{3}$ $\frac{3 \times 3 + 1 \times 6 + 2 \times 4}{4 \times 2 \times 3}$ $\frac{(3 \times 3) + (1 \times 6) + (2 \times 4)}{12}$ $\frac{9 + 6 + 8}{12}$ $\frac{15 + 8}{12}$ $= \frac{23}{12}$ $= 1 \frac{11}{12}$ <p>2. A baby was given $\frac{5}{6}$ litres of milk and drank $\frac{7}{12}$ litres. How much milk remained.</p> $5 - 7$ $\frac{5 \times 2 - 7 \times 1}{6 \times 2}$ $\frac{(5 \times 2) - (7 \times 1)}{12}$ $\frac{10 - 7}{12}$ $= \frac{3}{12}$ $= \frac{1}{4}$ | <p>Values</p> <p>Co-operation appreciation</p> | <p>Question and answer</p> <p>Market stall</p> | addition and subtraction | Primary Six curriculum page 162 |
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| 3 | F R A C T I O N S | Multiplication of fractions | The learner: - relates factors and multiples. - simplifies fractions correctly. - changes mixed fractions to improper fractions | - reads and use the key words. - writes the given fractions | -Multiplication of fractions by whole numbers. Examples 1) $\frac{1}{3} \times 12$ $= \frac{1}{3} \times 12^{\cancel{3}}$ $= 1 \times 4 = 4$ 2) $\frac{3}{4}$ of 12 $= \frac{3}{4} \times 12^{\cancel{4}}$ $= 3 \times 3 = 9$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Discussion question and answer think, pair & share | Multiplying fractions | Chalk board illustrations | Mk Maths book 6 page 107 Primary Six curriculum page 162 |
| | F R A C T I O N S | Multiplication of fractions | | | -Multiplication of fractions by fractions. Examples Simplify: 1) $\frac{1}{3} \times \frac{4}{5}$ $= \frac{1}{3} \times \frac{4}{5}$ $= \frac{4}{15}$ 2) $1\frac{1}{2} \times \frac{1}{3}$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | | Multiplying fractions | Chalk board illustrations | Mk maths book 6 page 119-120 Primary Six curriculum pg 162 |

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| 4 | F R A C T I O N S | Recip ro cals - divi sion of frac tion by whole num bers. | The learner: - describes reciprocal - finds reciprocal - divides fractions | - reads the keywords. - writes fractions | Reciprocals: Fractions whose product is 1 are reciprocals. Example Find the reciprocal of $\frac{2}{3}$. Let the reciprocals be m. $\frac{2}{3} \times m = 1$ $\frac{2m}{3} = \frac{1}{1}$ $\frac{2 \times 2m}{3 \times 1} = 1 \times 3$ $2m = 3$ $\frac{2m}{2} = \frac{3}{2}$ $m = \frac{3}{2}$ Division of fractions by whole numbers. Example Work out: $\frac{2}{3} \div 2$ $\frac{2}{3} \div \frac{2}{1}$ $\frac{2}{3} \times \frac{1}{2} = \frac{1}{3}$ | Effective communication confidence Problem solving taking decision Values Co- operation appreciation | Explan ation Discus sion Questi on and answer Market stall | Finding recipro cals Solving fraction s involvin g division of whole number s | Chalk board illustra tion s | Mk Maths book 6 page 111- 112 Primar y Six curricul um page 162 |
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| 5 | | F R A C T I O N S | Division of fractions by fractions - applies reciprocal in division of fractions - changes mixed fractions to improper fractions - solve fractions involving division | The learner: - reads the key words correctly. - pronounce the key words correctly. | - reads the key words correctly. - pronounce the key words correctly. | Division of fractions by fractions. Examples Simplify: 1. $\frac{3}{4} \div \frac{1}{2}$ $3 \times \frac{2^1}{4^2} = 1$ 3×1 2×1 $= 3^1 \text{rem } 1$ 2^1 $= 1 \frac{1}{2}$ 2. $2 \frac{1}{2} \div 1 \frac{1}{4}$ $\frac{(2 \times 2) + 1}{2} \div \frac{(4 \times 1) + 1}{4}$ $\frac{5}{2} \div \frac{5}{4}$ $\frac{15^1}{2^1} \times \frac{4^2}{5^1}$ 1×2 $1 \times 1 = 2$ 1 | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Discussion Question and answer Guided discovery Brain storming | Finding reciprocal Changing mixed fractions to improper fractions Simplifying fractions | Chalk board illustrations | Mk maths book 6 112 Primary Six curriculum page 162 |
| 6 | = 2 | F R A C T | Mixed operations with operations | The learner: - works out the solution - finds the lowest | - reads BODMAS - describes BODMAS in | Mixed operations with fractions. -Use of BODMAS B Brackets () O of of D Division ÷ | Effective communication confidence | Explanation | Simplifying mixed operations | Chalk board illustrations | Mk Maths book 6 page 113 |


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| | | | | | <p>IONS</p> <p>tions (BODMAS)</p> <p>common multiples.</p> <p>simplifying fractions - finds lowest common multiples</p> <p>M Multiplication x A Addition + S Subtraction - Examples Simplify: 1. $\frac{5}{6} - \frac{3}{4} \div 1\frac{1}{2}$ $\frac{5}{6} - \frac{3}{4} \div \frac{3}{2}$ BODMAS $\frac{5}{6} \left(-\frac{3}{4} \times \frac{2}{3} \right)$ $\frac{5 \times 1}{6} - \frac{1 \times 3}{2}$ LCM $\frac{5 \times 1 - 1 \times 3}{6}$ $\frac{2 \ 6 \ 2}{3 \ 3 \ 1}$ $\frac{5 - 3}{6}$ $\frac{2 \times 3}{=6}$ $= \frac{2}{6}$ $= \frac{1}{3}$ 2) $\frac{1}{3} \times \frac{1}{2} + \frac{1}{4} \times \frac{1}{5}$ $\left(\frac{1}{3} \times \frac{1}{2} \right) + \left(\frac{1}{4} \times \frac{1}{5} \right)$ $\frac{1}{6} + \frac{1}{20}$ LCM</p> | <p>Problem solving taking decision Values Co-operation appreciation</p> | <p>Discussion</p> <p>Question and answer</p> <p>Brain storming</p> | <p>with fractions using BODMAS</p> | <p>Primary Six curriculum page 162</p> |
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| 7 | | F R A C T I O N S | Decimals | The learner: - identifies correct place values - adds decimals up to ten thousandths - adds decimals up to ten thousandths with carrying. | - reads decimals - writes decimals - writes the given fractions | -Addition of decimals without carrying. Examples. Workout: 1) $1.5 + 0.4 = 1.9$ $\begin{array}{r} 1.5 \\ +0.4 \\ \hline 1.9 \end{array}$ 2. $7.04 + 1.6 = 8.64$ $\begin{array}{r} 7.04 \\ + 1.60 \\ \hline 8.64 \end{array}$ -Addition of decimals with carrying. Examples. Work out. 1) $1.5 + 1.6 = 3.1$ $\begin{array}{r} 1.5 \\ +1.6 \\ \hline 3.1 \end{array}$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Illustration Think, pair & share Discussion Question and answer | Adding decimal with or without carrying | Chalk board illustrations | Mk maths book 6 page 114 Primary Six curriculum page 162 | |
| | | F R A C T I O N S | | The learner: - identifies correct place values - adds decimals up to ten thousandths - adds decimals up | - reads decimals - writes decimals - writes the given fractions | Subtraction of decimals without borrowing. Examples Simplify: 1. $2.5 - 1.3 = 1.2$ $\begin{array}{r} 2.5 \\ - 1.3 \\ \hline 1.2 \end{array}$ 2. $2.85 - 0.03 = 2.82$ | Effective communication confidence Problem solving taking decision Values | Explanation Illustration Discussion | Subtracting decimals with or without borrowing | Chalk board illustrations | Mk Maths book 6 page 114 Primary Six curriculum | |

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| | | | | | to ten thousandths with carrying. | | $\begin{array}{r} -0.030 \\ 2.055 \\ \hline \end{array}$ -subtraction of decimals with borrowing. Examples Simplify: 1. $2.8 - 0.9 = 2.18$ $\begin{array}{r} 2.8 \\ -0.9 \\ \hline 1.9 \end{array}$ $= 1.9$ 2. $1.45 - 0.6 = 1.45$ $\begin{array}{r} 1.45 \\ -0.60 \\ \hline 0.85 \end{array}$ $= 0.85$ | Co-operation appreciation | Question and answer Brain storming | | | page 162 |
| 3 | 1 | | F R A C T I O N S | Decimals | The learner: - solves decimals with addition and subtraction - re-arranges fractions | - reads instructions - writes the given fractions | -Addition and subtraction of decimals (consolidated) Examples Work out 1. $8-5.16+2.13$ $8+2.13-5.16$ $\begin{array}{r} 8.00 \\ +2.13 \\ \hline 10.13 \end{array}$ $10.13 - 5.16$ $\begin{array}{r} Sw \\ 10.13 \\ - 5.16 \\ \hline \end{array}$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Think, pair & share Illustration Discussion Question and answer | Adding and subtracting of decimals | Chalk board illustrations | Mk Maths book 6 page 115 Primary Six curriculum page 162 |

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| | | | | | | 4.97 = 4.97 2. $7 - 0.45 + 1.71$ | | | | | | |
| 2 | | F R A C T I O N S | Deci mals | The learner: - adds decimals in words - identifies place values - changes decimals to common fractions - multiples denominator s and numerators alone. | - reads the statements - pronounce s the words correctly. - writes words. | Word problems involving addition and subtraction of decimals. Examples. 1. Mary bought 4.5 litres of milk and 0.35litres got spoilt. How many litres were left? $4.5 - 0.35$ $= 4.50$ $\underline{-0.35}$ 4.15 $= 4.15\text{litres}$ 2. In a Ludo game, Musa scored 7.5 points in the first round and 3.8 points in the second round. How many points did he score altogether? 1 st round - 7.5 2 nd round - $\underline{+3.8}$ 11.3points | Effective communic ation confidence Problem solving taking decision Values Co- operation appreciatio n | Explan ation Discus sion Questi on and answer | Solving decima ls in word proble ms involvin g additio n and subtrac tion | Chalk board illustr ation s | Mk Maths book 6 page 116 Primar y Six curricul um page 162 | |
| | | F R A C T | Deci mals | The learner: - adds decimals in words | - reads the statements - pronounce s the | Multiplication of decimals. Examples Simplify: 1. 0.9×0.5 $= \underline{9} \times \underline{5}$ | Effective communic ation confidence | Explan ation | Multiply ing decima ls | Chalk board illustr ation s | Mk maths book 6 page 118 | |

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| | | | | I O N S | - identifies place values - changes decimals to common fractions - multiplies denominators and numerators alone. | words correctly. - writes words. | $10 \quad 10$ $= 45$ 100 $= 0.45$ 2. 1.32×2.4 $\begin{array}{r} 132 \times 24 \\ 100 \quad 10 \end{array} \quad \begin{array}{l} sw \\ 132 \\ \times 24 \\ 528 \\ +2640 \\ \hline 3168 \end{array}$ | Problem solving taking decision Values Co-operation appreciation | Guided discussion Question and answer | | | Primary Six curriculum page 162 |
| 3 | | F R A C T I O N S | Decimals | The learner: - changes decimals to common fractions - finds reciprocals - change division sign to multiplication sign | - reads the statements - pronounce the words correctly. - writes words. | Division of decimals Examples Simplify: 1) $8 \div 0.02$ $\begin{array}{r} 8 \div 2 \\ 1 \quad 100 \\ 8 \times 100 \\ 1 \quad 2 \\ 4 \times 100 = 400 \end{array}$ 2) $0.02 \div 0.8$ Consolidation of multiplication and division of decimals Examples. Workout: | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Guided discussion Question and answer | Dividing decimals Simplifying decimals involving both multiplication and division | Chalk board illustrations | Mk Maths book 6 page 121 Primary Six curriculum page 162 | |

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| | | | | | | $1. \frac{0.7 \times 0.6}{0.3}$ $(0.7 \times 0.6) \div (0.3)$ $\frac{7}{10} \times \frac{6}{10} \div \frac{3}{10}$ $\frac{7}{10} \times \frac{6}{10} \times \frac{10}{3}$ $\frac{7 \times 2}{10} = \frac{14}{10}$ $= 1.4$ | | Think, pair & share | | | |
| 4 | | F R A C T I O N S | Decimals | The learner: - solves word problems involving multiplication and division of decimals. | - reads and interprets statements - writes notes | <p>Word problems involving multiplication and division of decimals.</p> <p>Examples</p> <p>1. The length of one side of a square is 8.75cm. Find the perimeter of the square.</p>  <p>P = add all sides = 4s = 4 x 8.75 = 4 x $\frac{875}{100}$ = $\frac{3500}{100}$ = 35cm</p> <p>2. a parcel weighing 5.5kg contains packets of salt. How</p> | <p>Effective communication</p> <p>confidence</p> <p>Problem solving</p> <p>taking decision</p> <p>Values</p> <p>Co-operation appreciation</p> | <p>Explanation</p> <p>Discussion</p> <p>Illustration</p> <p>Question and answer</p> | <p>Measuring items like water</p> <p>- solving word problems involving</p> <p>Multiplication and division</p> | <p>Chalk board illustration</p> <p>Mk Maths book 6</p> <p>Primary Six curriculum page 162</p> | |

| | | | | | | | | | | | |
|---|--|---|--------------------------------------|---|--|--|--|---|---|---|--|
| | | | | | | <p>many packets of salt are in the parcel if each packet weighs 0.25kg</p> $5.5 \div 0.25$ $\frac{55}{10} \div \frac{25}{100}$ $\frac{55}{10} \times \frac{100}{25}$ $11 \times 2 = 22 \text{ packets}$ | | Market stall | | | |
| 5 | | F R A C T I O N S | Ratio s and prop ortions | The learner: - defines ratio - expresses ratio as fractions - expresses quantities as ratio | - reads the key words - use the key words to make sentences. - writes ratios. | <p>Definition of a ratio -A ratio is a comparison of quantities. Symbols used in reading and writing ratios –: - 2:3 read as 2 to three</p> <p>Expressing ratios as fraction Example Express 2:3 as a fraction $2:3 = \frac{2}{3}$</p> <p>Expressing fractions as ratios Examples: 1. Express $\frac{3}{4}$ as a ratio $\frac{3}{4} = 3:4$ 2. Write 0.7 as a ratio $0.7 = \frac{7}{10} = 7:10$</p> | <p>Effective communication</p> <p>confidence</p> <p>Problem solving</p> <p>taking decision</p> <p>Values</p> <p>Co-operation appreciation</p> | <p>Explanation</p> <p>Discussion</p> <p>Market stall</p> <p>Question and answer</p> | <p>Defining a ratio</p> <p>- Reading and writing ratios .</p> <p>Expressing -ratios as fractions</p> <p>- fractions as ratios</p> | <p>Chalk board illustrations</p> <p>Mk maths book 6 page 124 - 125</p> <p>Understanding Maths book 6 page 107</p> | |

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|---|--|--|---|-----------------------------------|---|--|--|---|--|--|---|--|
| | | | F R A C T I O N S | Ratio s and propor tions | The learner: - defines ration - expresses ration as fractions - expresses quantities as ratio | - reads the key words - use the key words to make sentences. - writes ratios. | Expressing quantities as ratios Example 1. There were 200 people at a party. 80 were females and the rest were males. Find the a) ratio of males to females. Males = 200-80 =120 M:F 120:80 $= \frac{120}{80} = \frac{12}{8} = \frac{3}{2}$ =3:2 b) ratio of males to the whole group. M:T 120:200 120:200 10 10 $12:20 = \frac{12}{10} = 3:5$ | Effective communication confidence Problem solving taking decision Values Co- operation appreciation | Explana tion Discus sion Questi on and answer Brain stormi ng | Expres sing quantiti es as ratios. | Chalk board illustra tion s | Mk Maths book 6 page 127 Functio n book 6 page 100 Primar y Six curricul um page 162 |
| 6 | | | F R A C T I O | Ratio s and propor tions | The learner: - identifies the new ratio - identifies the old ratio | - reads the key words correctly. - pronounce s the key | Increasing quantities in a given ratio. Example 1. Increase sh. 2000/= in the ratio 5:4 New:Old 5 : 4 | Effective communication confidence Problem solving | Explana tion Discus sion | Increas ing quantiti es in given ratios | Chalk board illustra tion s | Mk Maths book 6 page 129 Primar y Six |

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|---|---|----|---|------------------------|---|---|---|---|--|---------------------------------|---------------------------|---|
| | | | N S | | - calculates the new quantities | words correctly. | $5 \times 2000 = 500$ $\frac{5}{4}$ $5 \times 500 = \text{shs } 2500/=$ | taking decision Values Co-operation appreciation | Question and answer | | | curriculum page 162 |
| 7 | | | F R A C T I O N S | Ratios and proportions | The learner: - identifies the new and old ratios. - finds the ratio increase. | - reads and comprehends statements - writes ratios | Finding ratio increase Example A man's salary was increased from 10,000/= to shs 12.000/= per day. In what ratio did it increase? New : old 12000:10000 12000 10000 $\frac{12^6}{10^5}$ $= \frac{6}{5}$ $= 6:5$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Discussion Question and answer Brain storming | Finding the ratio increase | Chalk board illustrations | Mk maths book 6 page 130 Primary Six curriculum page 162 |
| 4 | 1 | on | F R A C T I O | Ratios and proportions | The learner: - identifies the new and old ratio. - decrease quantities in | - reads and interprets the statement. | Decreasing quantities in given ratios. Example 1. Decrease 4000kgs in the ratio 3:4 New : Old 3 : 4 | Effective communication confidence Problem solving | Explanation Discussion | Decreasing ratios in quantities | Chalk board illustrations | Mk Maths Book 6 page 131 Primary Six |

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|---|--|---|-----------------------------------|---|---|--|---|--|--|-------------------------------------|--|
| | | | N S | a given ration | - writes the decreased ratios | 3×4000 4^{\uparrow} 3×1000 3000kgs | taking decision Values Co- operation appreciatio n | Questi on and answer | | | curricul um page 162 |
| 2 | | F R A C T I O N S | Ratio s and propor tions | The learner: - relates new and old ratios - finds the ration decrease - shares quantities in ratio | - reads statements - pronounce s words correctly. - write given works | Finding the ratio of decrease. Example The number of pupils in a class has decreased from 40 to 35. In what ratio has the number decreased? New : Old $35 : 40$ 35 40 7 8 $= 7:8$ | Effective communication confidence Problem solving taking decision Values Co- operation appreciatio n | Explan ation Discus sion Guided discov ery Questi on and answer | Finding ratio decrea se | Chalk board illustra tions | Mk Maths book 6 page 132 Primar y Six curricul um page 162 |
| 2 | | F R A C T I O N S | Ratio s and propor tions | The learner: - relates new and old ratios - finds the ration decrease | - reads statements - pronounce s words correctly. - write given works | Sharing quantities in ratios. Example Share sh. 2000 in the ratio 2:3 Total ratio (2+3 = 5) 1^{st} share 2×2000 5^{\uparrow} $2 \times 400 = \text{sh. } 800/=$ 2^{nd} share 3×2000 5^{\uparrow} | Effective communication confidence Problem solving taking decision | Explan ation Discus sion Guided discov ery | Sharin g Quantit ies in ratios | Chalk board illustra tions | MK Maths book 6 page 133 Primar y Six curricul |

| | | | | | | | | | | | | |
|---|---|---|------------------------|--|--|--|---|--|----------------------------|---------------------------|---|-------------|
| | | | | | - shares quantities in ratio | | $3 \times 400 = \text{sh. } 1200/=$ | Values Co-operation appreciation | Question and answer | | | um page 162 |
| 3 | S | F R A C T I O N S | Ratios and proportion | The learner: - finds the total ratio - solves word problems in ratio - carries out division | - reads and interprets statements - writes ration | Application of ratios in solving problems. Example Maria, Mariam and Mary shared 36 oranges in the ratio 1:2:3 respectively. Find the number of oranges each girl got. Total ratio $(1+2+3=6)$ Maria got $\frac{1}{6} \times 36 = 6$ $1 \times 6 = 6$ oranges Mariam got $\frac{2}{6} \times 36 = 12$ $2 \times 6 = 12$ oranges Mary got $\frac{3}{6} \times 36 = 18$ $3 \times 6 = 18$ oranges | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Guided discovery Question and answer | Solving word problems | Chalk board illustrations | Mk Maths book 6 page 134 Primary Six curriculum page 162 | |
| 4 | | F R A C T | Ratios and proportions | The learner: - finds the number shared when given | - reads and interprets the statement | Finding the number shared when given ratios. Example. The ratio of males to females in a group is 2:3. If there are 20males, | Effective communication confidence | Explanation Guided discovery | Finding shared number when | Chalk board illustrations | Mk Maths book 6 page 135 | |

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|---|--|--|---|---|---|---|---|--|---------------------------------------|---------------------------|---|
| | | | I O N S | ratios involving | - pronounce the words correctly. - writes ratios | how many people are in the group? M:F 2:3 (2 + 3= 5) 20:? 2 parts represent 20 1 part represents $\frac{20}{2}$ 5 parts represent $\frac{20}{2} \times 5$ $10 \times 5 = 50$ people | Problem solving taking decision Values Co-operation appreciation | Question and answer Market stall | given ratios | | Primary Six curriculum page 162 |
| | | | F R A C T I O N S | Ratios and proportions The learner: - finds the number shared when given ratios involving | - reads and interprets the statement - pronounce the words correctly. - writes ratios | Simple proportion Examples 1. A book costs sh. 800/=. What is the cost of such books? 1 book costs sh. 800/= 6books cost sh. 800 $\frac{x}{6}$ Sh.4800/= 2. 10 eggs cost sh. 6000/=. Find the cost of 1 egg. 10 eggs cost sh. 6000/= 1 egg costs sh. $\frac{6000}{10}$ / Sh. 600/= | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Explanation Guided discovery Question and answer | Solving numbers in simple proportions | Chalk board illustrations | MK Maths book 5 page 238-239 Primary Six curriculum page 162 |
| 5 | | | F R A C T I O N S | Ratios and proportions The learner: - solves numbers involving | - reads and interprets | Direct proportion. Example | Effective communication confidence | Discussion Explanation | Working out numbers | Chalk board illustration | Mk Maths book |

| | | | | | | | | | | | |
|---|--|--------------------------------------|-------------------------|--|---|---|---|---|---|------------------------------|--|
| | | | | T I O N S | simple proportion. - solves numbers involving direct proportion | the statement. - writes numbers involving proportion. | 4 pens cost 2000/= .What is the cost of 7 similar pens? 4 pens cost shs. 2000/= 1 pen costs shs. $\frac{2000}{4}$ 7 pens cost sh. $2000 \times \frac{7}{4}$ $500 \times 7 =$ Shs. 3500/= | Problem solving taking decision Values Co-operation appreciation | Question and answer Brain storming | involving direct proportion. | page 137 Primary Six curriculum page 162 |
| 6 | | F R A C T I O N | Ratio s and proportions | The learner: - solves numbers involving inverse proportion. - gives examples of constant proportion - relates ratios which are constant | - reads and interprets the statement - pronounces the words correctly. | Inverse proportion Example 1. 3men can do a piece of work in 6 days. How long will 9 men take to do the same job? 3 men take 6 days 1 man takes 6×3 days 9 men take $6^2 \times 3^{-1}$ $9 \frac{1}{3}$ days Constant proportion It takes 5 minutes for 6 bottles of soda to get cold in a deep freezer. How long would 10 similar bottles take to get cold put in the same freezer? 6 bottles take 5 minutes 1 bottle takes 5minutes 10bottles take 5 minutes | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discussion Explanation Question and answer | - Working out numbers involving inverse and constant proportion | Chalk board illustrations | Mk Maths book 6 pages 138-139 Primary Six curriculum page 162 |

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|---|---|----------|---|----------------|---|--|---|--|---|--|---|--|
| | 7 | | F R A C T I O N S | Perce ntage | The learner: - expresses fractions as percentages - expresses decimals as percentages - expresses percentages as decimals. | - reads and spells percentages - writes the symbols for percentages | Meaning of percentage -Is a fraction whose denominator is 100. -percent means every hundred. -% is the symbol for percentages. 1) Expressing fractions as percentages. Examples Change to percentage 1) $\frac{1}{2}$ Method: Multiply by 100% $= \frac{1}{2} \times 100\%$ $= 1 \times 50\% = 50\%$ 2) $0.7 = \frac{7}{10} \times 100\%$ $= 7 \times 10\%$ $= 70\%$ 2) Expressing percentages as fractions. E.g. Express 25% as a fraction $25\% = \frac{25}{100} = \frac{1}{4}$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discus sion Explan ation Questi on and answer | Expres sing fraction s as percent age and vicever sa | Chalk board illustr ation s | Mk Maths book 6 page 142- 143 Primar y Six curricul um page 162 |
| 5 | 1 | 100 4 | F R A C T I O | Perce ntage | The learner: - expresses ratios as percentages | - reads and spells percentages - writes the symbols for | Expressing ratios as percentages. Example 1. Express 2:5 as a percentage. $2:5 = \frac{2}{5} \times 100\%$ $= \frac{2}{5} \times \frac{20}{20} \times 100\%$ $= \frac{40}{5} = 8\%$ | Effective communication confidence Problem solving | Discus sion Explan ation | Expres sing ratios as percent age | Chalk board illustr ation s | Mk. Maths book 6 page 145 |

| | | | | | | | | | | | | |
|--|---|--|---|------------|---|---|--|---|--|----------------------------------|---------------------------|---|
| | | | N S | | - expresses percentages as ratios - changes percentages to decimals | percentages. | $= 2 \times 20\%$ $= 40\%$ Expressing percentage as ratios. Example 1. Express 40% as a ratio. $40\% = \frac{40}{100}$ $= \frac{4}{10} = \frac{2}{5} = 2.5$ | taking decision Values Co-operation appreciation | Question and answer Brain storming | Expressing percentage as ratios. | | Maths Revision handbook Primary Six curriculum page 162. |
| | | | F R A C T I O N S | Percentage | The learner: - expresses ratios as percentages - expresses percentages as ratios - changes percentages to decimals | - reads and spells percentages - writes the symbols for percentages. | Changing percentages to decimals. Example 1. Express 20% as a decimal. $20\% = \frac{20}{100}$ $= \frac{2}{10}$ $= 0.2$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discussion Explanation Question and answer | | | Mk. Maths book 6 144 Primary Six curriculum page 162 |
| | 2 | | F R A C T | Percentage | The learner: - finds parts of percentages | - reads and interprets statements | Finding parts of a percentage. Example 1. 80% of the class are boys. What percentage are girls? Whole class = 100% | Effective communication confidence | Discussion Explanation | Finding parts of a percentage | Chalk board illustrations | Mk. Maths book 6 page 146 |

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|---|--|-----------|------------|---|---|--|---|---|--|---------------------------|--|---------------------------------|
| | | | | | | - writes the symbols for percentage | %for boys =80% %for girls = 100% - 80% = 20% | Problem solving taking decision Values Co-operation appreciation | Question and answer Think, pair & share | | | Primary Six curriculum page 162 |
| 3 | | FRACTIONS | Percentage | The learner: - compares quantities using percentages . - finds quantities equivalent | - reads and interprets the statements . - writes the symbols for percentage | Comparing quantities using percentages. Example 1. There are 20% more girls in the class. What is the percentage of a) boys? Girls boys Total (x+20)% x% 100% $X + x + 20\% = 100\%$ $2x + 20\% = 100\%$ $2x + 20\% - 20\% = 100\% - 20\%$ $2x = 80\%$ 2 2 $X = 40\%$ Boys % = x = 40% Girls % = x + 20% = 40% + 20% = 60% | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discussion Explanation Question and answer | Comparing quantities using percentages | Chalk board illustrations | Mk. Maths book 6 page 147 Understanding Mathematics book 6 page 116 | |

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|---|----|---|----------------|---|---|--|---|--|---|-------------------------------------|---|
| 4 | on | F R A C T I O N S | Perce ntage | The learner: - applies percentages in sharing. | - reads and interprets the statement. - pronounce s the key words correctly. | Finding quantities equivalent percentages. Example 1. What is 20% of sh. 2500? 20% of 2500 $20 \times 2500 / 100$ 2×250 Sh. 500/= | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discus sion Explan ation Questi on and answer Think, pair & share | Finding quanti ties equival ent to percent age | Chalk board illu strations | Mk. Maths book 6 page 150 Primar y Six curricul um page 162 |
| | | F R A C T I O N S | Perce ntage | The learner: - applies percentages in sharing. | - reads and interprets the statement. - pronounce s the key words correctly. | Sharing quantities using percentages Example 1. In a school of 400 pupils, 30% are boys. a) How many boys are in the school? $30\% \times 400$ 30×400 100 $30 \times 4 = 120$ boys. b) Find the number of girls in the school. $100\% - 30\% = 70\%$ | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discus sion Explan ation Questi on and answer | | | Mk. Maths book 6 page 151 Primar y Six curricul um page 162 |

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|---|--|---|----------------|--|---|---|---|---|--|-------------------------------------|---|
| | | | | | | $70\% \times 400 = \frac{70}{100} \times 400$ $7 \times 40 = 280$ girls | | | | | |
| 5 | | F R A C T I O N S | Perce ntage | The learner: - solves equations involving percentages | - reads and interprets the statement. - writes percentages. | Forming and solving equations involving percentages. Example 1. 10% of a number is 40. Find the number. Let the number be y. $10\% \text{ of } y = 40$ $10\% \times y = 40$ $10y = 40$ $\frac{10y}{10} = \frac{40}{10}$ $100 \times 10y = 40 \times 100$ $10y = 40 \times 100$ $10y = 4000$ $Y = 4 \times 100$ $Y = 400$ | Effective communication confidence Problem solving taking decision Values Co- operation appreciation | Discu sion Explan ation Questi on and answer Market stall | Formin g and solving equatio ns involvin g percent age | Chalk board illustr ations | Mk. Maths book 6 page 152 Primar y Six curricul um page 162 |
| 6 | | F R A C T I O N S | Perce ntage | The learner: - relates 100% in increasing percentages . - solves quantities | - reads statement - writes the statements | Percentage increase and decrease Example 1. Increase shs. 2000/= by 20%. $100\% + 20\% = 120\%$ $120\% \times 2000$ 120×2000 120000 12×200 | Effective communication confidence Problem solving | Discu sion Explan ation | Increas ing and decreas ing quantiti es by given | Chalk board illustr ations | MK. Maths book page 153 and 155 |

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|---|--|---|------------|--|---|--|---|--|-----------------------------|---------------------------|--|
| | | S | | involving percentages increase. - solve quantities involving percentage decrease. | | = 2400/= 2. Decrease 3000 by 10% $100\% - 10\% = 90\%$ $90\% \times 3000 = 9 \times 300$ $90 \times 3000 = 2700$ 100 | taking decision Values Co-operation appreciation | Question and answer | percentage | | Primary Six curriculum page 162 |
| 7 | | F R A C T I O N S | Percentage | The learner: - finds the percentages decrease | - reads the statements - writes the statements | Finding percentage increase. Example When 600 is increased by x%, it becomes 660. Find the value of x. New no – Old no $660 - 600 = 60$ % increase = $\frac{\text{Diff} \times 100\%}{\text{Old no.}}$ $= \frac{60 \times 100\%}{600}$ X = 10% | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discussion Explanation Question and answer Brain storming | Finding percentage increase | Chalk board illustrations | Mk. Maths book 7 page 122 Primary Six curriculum page 162 |
| | | F R A C T I O | Percentage | The learner: - finds the percentages decrease | - reads the statements - writes the statements | Finding percentage decrease Example When sh. 1200/= is decreased by y%, it becomes shs. 900/=. Find the value of y. $\text{Sh. } 1200 - \text{sh. } 900 = 300/=$ | Effective communication confidence Problem solving | Discussion Explanation | Finding percentage decrease | Chalk board illustration | Mk Maths book 6 page 156 Primary Six |

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|---|---|--|---|--|---|---|--|---|------------------------------------|---------------------------|--|---------------------|
| | | | N S | | | | $\frac{300}{1200} \times 100\% = 25\%$ | taking decision Values Co-operation appreciation | Question and answer | | | curriculum page 162 |
| 6 | 1 | | F R A C T I O N S | Percentage The learner: - forms equations - finds old number after increase | - reads the statements - writes the statements | <p>Find old number after increase.</p> <p>Example What number when increased by 20% becomes 360?</p> <p>Method 1 Forming equations Let the number be x $100\% + 20\% = 120\%$ 120% of x = 360 $\frac{120}{100} \times X = 360$ $120x = 360 \times 100$ $120x = \frac{360 \times 100}{120}$ $X = \frac{360 \times 100}{120}$ $X = 3 \times 100$ $X = 300$</p> <p>Method II New % = $100\% + 20\% = 120\%$</p> | <p>Effective communication</p> <p>confidence Problem solving taking decision Values Co-operation appreciation</p> | Discussion Explanation Question and answer | Finding old number after increases | Chalk board illustrations | <p>Functional Primary Mathematics book 6 page 111</p> <p>Primary Six curriculum page 162</p> | |

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|---|--|---|----------------|---|---|--|---|--|---|---|---|
| | | | | | | 120% represents 360 1% represents $\frac{360}{120\%}$ 100% repr. $\frac{360 \times 100}{120\%}$ 3×100 $=300$ | | | | | |
| 2 | | F R A C T I O N S | Perce ntage | The learner: - forms equations - finds old number after | - reads the statements - writes the statements | Finding old number after decrease Example 1. What number when decreased by 25% becomes 900? $\text{New \%} = 100\% - 25\%$ $=75\%$ 75% repr. 900 1% repr. $\frac{900}{75\%}$ 100% repr. $\frac{900 \times 100}{75\%}$ $300 \times 4 = 1200$ | Effective communication confidence Problem solving taking decision Values Co- operation appreciatio n | Discus sion Guided discov ery Explan ation Questi on and answer | Finding old number after decrea se | Chalk board illustra tion s | Mk. Maths book 6 page 155- 156 Primar y Six curricul um page 162 |
| 3 | | F R A C T I O N S | Perce ntage | The learner: - applies percentage to loss, cost price and selling price. - finds loss and profit | - describes profits, loss price and selling price. - reads the statements - writes the statements | Application of percentage -cost price, selling price and cost price. Example 1. Pamella bought a book at sh.300/= and sold it at sh. 400/=. Find her profit. $\text{Profit} = \text{selling price} - \text{cost price}$ $P = s/p - c/p$ | Effective communication confidence Problem solving taking decision Values | Discus sion Guided discov ery Explan ation | Finding profit | Chalk board illustra tion s | Mk. Maths book 6 page 157 Primar y Six curricul |

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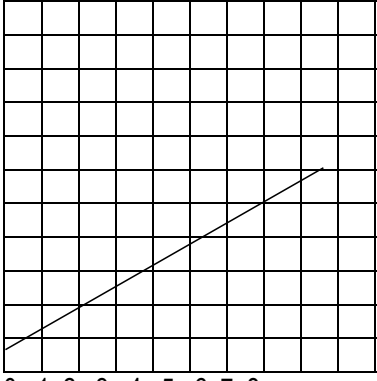
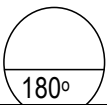
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| | | | | - finds percentage profit and loss | | Shs. 400/= Shs. 300/= Shs. 100/= | Co-operation appreciation | Question and answer | | | um page 162 | |
| | | | F R A C T I O N S | Percentage The learner: - applies percentage to loss, cost price and selling price. - finds loss and profit - finds percentage profit and loss | - describes profits, loss price and selling price. - reads the statements - writes the statements | Finding percentage profit Example My sister bought a pen at shs. 1600/= and sold it at sh. 2000/= Find the percentage profit. $\% \text{ profit} = \frac{\text{Profit}}{c/\text{price}} \times 100\%$ $P = \frac{S}{P} - \frac{C}{p}$ Sh. 2000/= Sh. 1600/= Sh. 400/= $\% \text{ profit} = \frac{400 \times 100\%}{1600}$ = 25 % | Effective communication confidence Problem solving taking decision Values Co-operation appreciation | Discussion Explanation Question and answer | Finding percentage profit | Chalk board illustrations | Mk. Maths book 6 page 157 Primary Six curriculum page 162 | |
| 4 | | | F R A C T I O N S | Percentage The learner: - finds loss when given selling price - finds loss percentage | - reads the statements - writes the statements | Finding loss Example 1. Nsubuga sold a cow at sh. 250,000/= which he bought at sh. 300,000/=. How much loss did he make? Loss=cost price-selling price 300000- 250000 Sh. 300000/= Sh. 250000/= Sh. 50,000/= | Effective communication confidence Problem solving taking decision Values | Discussion Demonstration Explanation | Finding loss | Chalk board illustrations | Understanding maths book 6 Primary Six curriculum page 162 | |

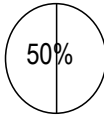
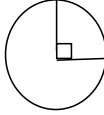
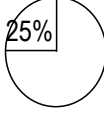
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| | | | S | | | interprets the statements | $= 12000 \times 2$ $= \text{sh. } 24,000/=$ Finding amount. Example A trader borrowed sh. 400,000/= from a bank at an interest rate of 5% per annum. Find the amount he got after 6months. $A = P + SI$ $= 400,000 + 2000 \times \frac{5}{100} \times 6$ $= 400000 + 2000 \times 5$ $= 400000 + 10000 \text{ sh.}$ $A = 410,000$ | taking decision Values Co-operation appreciation | Question and answer | | | Mk Maths book 6 page 159 Primary Six curriculum page 162 |
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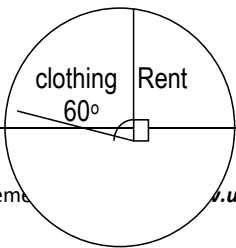
E.L.O: The learner represents and interprets simple mathematical data in various forms.

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| | GRAPHICS AND INTERPRETATION OF INFORMATION | DATAS | Types of graphs | The learner: - forms tables from the given information/ data | - names types of graphs - reads and interpretes data presented on tables. | Types of graphs. - Picto graphs - Bar graphs -line graphs - pie charts -collection of data Example A class was asked the type of food they liked most. Their answers were as follows: | <u>Creative thinking</u> <u>Logical thinking</u> <u>Problem solving</u> Taking decision Making choice <u>Values</u> | Discussion Explanation | - Naming graphs - collecting data - drawing tables | A bar graph on the chart Chalk board illustrations | Mk. Maths book 6 page 164-165 P.6 curr. pg 166-167 |
|--|--|-------|-----------------|---|--|---|--|-------------------------------|--|---|---|

| 6 | TION | | | | | 10 liked matooke, 12 liked posho, 6 liked millet, 8 liked rice, 4 liked cassava and 8 liked yams. Put the above information in a table. | Co-operation appreciation | Demonstration | | | | | | | | | | | | | | | | | | | |
|------------|--|-------------|------------|--|--|---|---------------------------|----------------|-----------|-----------------|----------|----------------|--------|-------|---------|---------|-----|---------|---|--|---|----------------------------|--|--|--|--|--|
| | | | | | | <table border="1"> <tr> <td>Ty of food</td> <td>Mat.</td> <td>Posho</td> </tr> <tr> <td>No. of pup</td> <td>10</td> <td>12</td> </tr> </table> <table border="1"> <tr> <td>Millet</td> <td>Rice</td> <td>cassava</td> <td>yams</td> </tr> <tr> <td>6</td> <td>8</td> <td>4</td> <td>8</td> </tr> </table> | Ty of food | Mat. | Posho | No. of pup | 10 | 12 | Millet | Rice | cassava | yams | 6 | 8 | 4 | 8 | | | Question and answer | | | | |
| Ty of food | Mat. | Posho | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. of pup | 10 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Millet | Rice | cassava | yams | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 8 | 4 | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | GRAPHS AND INTERPRETATION OF INFORMATION | DATASHARING | Pictograph | The learner: - draws pictographs - works out equations involving pictographs | - reads and interprets the given data - writes the given data | <p>Pictograph</p> <p>Example</p> <p>The graph below shows the number of cars that pass through Mbeya village from Monday to Friday.</p> <table border="1"> <thead> <tr> <th>DAY</th> <th>NUMBER OF CARS</th> </tr> </thead> <tbody> <tr> <td>MON</td> <td>△△△△△</td> </tr> <tr> <td>TUE</td> <td>△ △</td> </tr> <tr> <td>WED</td> <td>△ △ △</td> </tr> <tr> <td>THU</td> <td>△△△△△△△</td> </tr> <tr> <td>FRI</td> <td>△ △ △ △</td> </tr> </tbody> </table> <p>Scale : △ represents 10 cars.</p> <p>Questions:</p> <p>1. How many cars passed through the village on Thursday?</p> | DAY | NUMBER OF CARS | MON | △△△△△ | TUE | △ △ | WED | △ △ △ | THU | △△△△△△△ | FRI | △ △ △ △ | <p><u>Creative thinking</u></p> <p>Logical thinking</p> <p><u>Problem solving</u></p> <p>Taking decision</p> <p>Making choice</p> <p><u>Values</u></p> <p>Co-operation appreciation</p> | <p>Explanation</p> <p>Illustration</p> <p>Demonstration</p> <p>Discussion</p> <p>Question and answer</p> <p>Brain storming</p> | - Drawing graphs. - Answering questions involving graphs | A chart showing Pictograph | Mk Maths book 6 page 163 P.6 curr. pg 166-167 | | | | |
| DAY | NUMBER OF CARS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MON | △△△△△ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TUE | △ △ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WED | △ △ △ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THU | △△△△△△△ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FRI | △ △ △ △ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 1 | DATA | Line graph | The learner: - draws line graph | - reads and interprets | Line graph | <u>Creative thinking</u> | Explanation | - Drawing | A chart showing | Mk Maths | | | | | | | | | | | | | | | | |

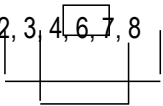
| | | | | | | | | | | | |
|---|---|--|------------|---|--|--|---|--|--|------------------------------|--|
| | | H A N D L I N G | | - answers written questions about line graphs. | the line graphs. - writes the given data | The graph shows litres of petrol consumed by a car through a certain distance  <p>0 1 2 3 4 5 6 7 8 Number of litres</p> | Logical thinking <u>Problem Solving</u> Taking decision Making choice <u>Values</u> Co-operation appreciation | Illustration Demonstration Discussion Question and answer | g graphs - Answering questions about line graphs. | ng line graphs | book 6 page 7 P.6 curr. pg 166-167 |
| 2 | GR APH S A N D I N T E R P R E T A T I O N O F I N F O R M A | D A T A H A N D L I N G | Pie charts | The learner: - draws circle graphs and represents regions on them - shades required regions | - reads and interprets the given data. - describes pie charts - names pie charts | Pie charts: Pie charts are circle graphs. -Pie charts are used to organize information using either fractions, decimals, degrees or percentages. -The angle sum of a circle graph is 360° . Example Draw and shade given regions in a circle graph. $\frac{1}{2} \times 360^\circ = 180^\circ$  | <u>Creative thinking</u> Logical thinking <u>Problem Solving</u> Taking decision Making choice <u>Values</u> Co-operation | Explanation Discussion | Drawing circle graphs - shading regions in circle graphs | Draw and shade circle graphs | Mk Maths book 6 page 178-179 P.6 curr. pg 166-167 |

| | | | | | | | | | | | |
|---|--|--------------|------------|---|--|--|---|-------------------------------|--|-----------------------------|--|
| | | TION | | | | $\frac{1}{2} \times 100\% = 50\%$  $\frac{1}{4} \times 360^\circ = 90^\circ$  $\frac{1}{4} \times 100\% = 25\%$  | appreciation | Guided discovery | | | |
| 3 | GRAPHS AND INTERPRETATION OF INFORMATION | DAT HANDLING | Pie-charts | The learner: - solves problems involving circle graphs | - reads the statements - interprets data - writes the statements | Solving problems involving piecharts Example The pie-chart below shows how a man spends his salary of sh. 180,000/= | <u>Creative thinking</u> <u>Logical thinking</u> <u>Problem solving</u> <u>Taking decision</u> <u>Making choice</u> <u>Values</u> <u>Co-operation</u> | Explanation Discussion | Working out questions involving pie charts | A chart showing a pie chart | Mk Maths book 6 page 180-183 P.6 curr. pg 166-167 |



| | | | | | | | | | | | | |
|---|--|---------------|----------------------------|---|--|--|--|---|---|---------------------------|---|--|
| | | | | | | <p>Fees x / 110° Food</p> <p>a) Find the value of x. $x + 60^\circ + 90^\circ + 110^\circ = 360^\circ$ $x + 150^\circ + 110^\circ = 360^\circ$ $x + 260^\circ = 360^\circ$ $x + 260^\circ - 260^\circ = 360^\circ - 260^\circ$ $x = 100^\circ$</p> <p>b) How much more money does he spend on fees than clothing? Fees - clothing</p> <p>$100^\circ - 60^\circ = 40^\circ$ $360^\circ \times \frac{40^\circ}{360^\circ} =$ $40 \times 180000 / =$ 360 Sh. 20000/- more.</p> | appreciation | Guided discovery Brain storming | | | | |
| 4 | GRAPHS AND INTERPRETATION OF INFORMATION | DATA HANDLING | Construction of pie charts | The learner: - calculates degrees from given fractions. - measures angles for given pie charts. | - reads the statements - interprets data - writes the statements | Construction of pie - charts Example A man spends his money as follows: $\frac{1}{4}$ on food $\frac{1}{3}$ on rent and $\frac{5}{12}$ on others. Show this information on a pie-chart. Food: $\frac{1}{4} \times 360^\circ = 90^\circ$ Rent: $\frac{1}{3} \times 360^\circ = 120^\circ$ | <u>Creative thinking</u> <u>Logical thinking</u> <u>Problem solving</u> Taking decision | Explanation Illustration Discussion | Constructing accurate pie-charts from given information | Chalk board illustrations | Mk Maths book 6 page 184 - 186 P.6 curr. | |

| | | | | | - construct angles | | Others: $5 \times 360^\circ = 5 \times 30^\circ = 150^\circ$ | | Making choice Values Co-operation appreciation | Question and answer Brain storming | | | pg 166-167 | | | | | | | | | | | | | | | | | | | | |
|-----|--|---------------|-------------------|---|---|---|--|-----|---|---------------------------------------|---|---|------------|---|----|---|---|-----|---|---|---|---|---|---|---|---|---|---|--|-------------------------------------|--|--|--|
| 5 | GRAPHS AND INTERPRETATION OF INFORMATION | DATA HANDLING | Simple statistics | The learner: - differentiate mode from modal frequency. - work out numbers involving mode and modal frequency | - reads the statements - describes mode, modal frequency and range. - writes mode and modal frequency | Mode: Mode is the commonest number in the given data Example A boy obtained the following in a series of tests: 8, 2, 6, 4, 5, 6, 9, 6, and 2 a) Find his modal mark | <table border="1"> <thead> <tr> <th>No.</th> <th>T</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td>11</td> <td>2</td> </tr> <tr> <td>6</td> <td>111</td> <td>3</td> </tr> <tr> <td>5</td> <td>1</td> <td>1</td> </tr> <tr> <td>9</td> <td>1</td> <td>1</td> </tr> <tr> <td>4</td> <td>1</td> <td>1</td> </tr> </tbody> </table> | No. | T | F | 8 | 1 | 1 | 2 | 11 | 2 | 6 | 111 | 3 | 5 | 1 | 1 | 9 | 1 | 1 | 4 | 1 | 1 | Creative thinking Logical thinking Problem solving Taking decision Making choice Values Co-operation appreciation | Guided discovery Explanation | Calculating numbers involving mode, modal frequency and range. | Class room situation Chalk board illustration | Mk Maths book 6 page 169-170 P.6 curr. pg 166-167 |
| No. | T | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 11 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 111 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|--|---------------|-------------------|--|---|--|--|---|-------------------------------|---------------------------|---|
| | | | | | | <p>the mode appears. In the above number, 3 is the modal frequency.</p> <p>Range: Range is the difference between the highest and the lowest items in given information.</p> <p>Example Musa scored the following marks in a series of tests 50, 20, 30, 75, 30, 80, 20, 30, 30, 50, 75, 80 Find the range mark. $R = H - l$ $= 80 - 20$</p> | | <p>Discussion</p> <p>Think, pair & share</p> | | | |
| 6 | GRAPHS AND INTERPRETATION OF INFORMATION | DATA HANDLING | Simple statistics | <p>The learner:</p> <ul style="list-style-type: none"> - arranges items in both ascending and descending order. - calculates the median - calculates the mean | <ul style="list-style-type: none"> - reads and interprets the statement. - writes the statement | <p>Median: is the middle number got after arranging in either ascending or descending order.</p> <p>Example Given 7, 3, 2, 6, 8 and 4, find the median 7, 3, 2, 6, 8, 4</p> $= 2, 3, 4, \boxed{6, 7}, 8$  $= \frac{4 + 6}{2}$ $= 10$ | <p><u>Creative thinking</u> <u>Logical thinking</u> <u>Problem solving</u> <u>Taking decision</u> <u>Making choice</u> <u>Values</u> <u>Co-operation</u> <u>appreciation</u></p> | <p>Guided discovery</p> <p>Explanation</p> <p>Demonstration</p> <p>Discussion</p> | Finding median of given data. | Chalk board illustrations | <p>Mk Maths book 6 page 170</p> <p>P.6 curr. pg 166-167</p> |

| | | | | | | | | | | | | |
|---|--|--------------|-------------------|--|--|--|---|---|---|---------------------------|---|--|
| | | | | | | 2 = 5 | | | | | | |
| 6 | GRAPHS AND INTERPRETATION OF INFORMATION | DAT HANDLING | Simple statistics | The learner: - arranges items in both ascending and descending order. - calculates the median - calculates the mean | - reads and interprets the statement. - writes the statement | Arithmetic mean or average $M = \frac{SII}{NII}$ Example Find the mean of the first three even numbers. $M = \frac{SII}{NII}$ $= \frac{0+2+4}{3} = \frac{6}{3}$ $= 2$ | <u>Creative thinking</u> <u>Logical thinking</u> <u>Problem solving</u> Taking decision Making choice <u>Values</u> Co-operation appreciation | Guided discovery Explanation Demonstration Discussion Think, pair & share | Calculating mean in given data | Chalk board illustrations | MK Maths book 6 page 171. Functional Primary Mathematics book 6 page 119 | |
| 7 | GRAPHS AND INTERPRETATION OF INFORMATION | DAT HANDLING | Simple statistics | The learner: - forms correct equations - solves for the unknown | - reads and interprets given information. - writes the statements | Inverse problems on average Example The average of 4 numbers is 13. Three of them are 9, 12 and 10. Find the fourth number. Let the fourth number be k. $K + 9 + 12 + 10 = 13 \times 4$ $K + 31 = \frac{13}{1} \times 4$ $\frac{4 \times k + 31}{4} = 13 \times 4$ | <u>Creative thinking</u> <u>Logical thinking</u> <u>Problem solving</u> Taking decision Making choice <u>Values</u> | Guided discovery Explanation Question and answer | Solving word problems involving average | Chalk board illustration | Mk Maths book 6 page 173 P.6 curr. pg 166-167 | |

| | | | | | | | | | | | | | |
|--|---|--|---------------|--------------------|---|--|--|--|--|---|---------------------------|--|--|
| | | | | | | | $K + 31 = 52$ $K + 31 - 31 = 52 - 31$ $K = 21$ | Co-operation appreciation | Discussion | | | | |
| 8 | 1 | GRAPHS AND INTERPRETATION OF INFORMATION | DAT ANALYSING | Simple statistics | The learner: - solves word problems involving average/mean | - reads and interprets the statements - writes the statements | More about average. Example The average of 4 numbers is 6 and the mean of 4 other numbers is 8. Find the mean mark of all 8 numbers. Total mark of 4 numbers = $4 \times 6 = 24$ Total mark of 4 other numbers = $4 \times 8 = 32$ Average mean of 8 numbers $A = \frac{SII}{NII}$ $= \frac{24 + 32}{8}$ $= \frac{56}{8}$ $= 7$ | <u>Creative thinking</u> Logical thinking <u>Problem solving</u> Taking decision Making choice <u>Values</u> Co-operation appreciation | Guided discovery Explanation Gallery walk Question & answer Discussion | Solving word problems involving average | Chalk board illustrations | Mk Maths book 6 page 173 P.6 curr. pg 166-167 | |
| E.L.O: The learner exchanges money from one currency to another and explains why conversion of money is done. | | | | | | | | | | | | | |
| | 2 | MEASUREMENTS | MONEY | Buying and selling | The learner: - finds the total expenditure. - calculates change | - reads and comprehend statements | Buying and selling Example Rose had sh. 5000/= and bought $1\frac{1}{2}$ kg of beans at sh. 600/= each kg, 500gm of salt at sh.700/= @ kg, and 2 bars of soap at sh. 1400/= | <u>Effective communication</u> fluency confidence | Guided discussion | Shopping | Money items in the shop. | Mk. Maths book 5 page 240 and Mk | |

| | | | | | - uses words like expenditure and change correctly. | <p>a) How much money did she spend altogether?</p> <p>Beans Salt $1\frac{1}{2} \times 600$ $\frac{500}{1000} \times 700$</p> <p>$\frac{3}{2} \times 600$ 3×300 50×7 Sh. 900/= shs. 350/=</p> <p>Soap 2bars for sh. 1400/=</p> <p>Total: sh. 900/=</p> <p style="padding-left: 40px;">Sh. 1350/=</p> <p style="padding-left: 40px;"><u>+Sh. 1400/=</u></p> <p style="padding-left: 40px;">Sh.2650</p> <p>b)Calculate her change. Sh. 5000- sh. 2650= sh. 2350/=</p> <p style="padding-left: 40px;">SW</p> <p>Sh. 5000/=</p> <p><u>-sh. 2650/=</u></p> <p>Sh. 2350/=</p> | <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others caring for others | Question and answer Explanation Market stall | Visit to the canteen Chalkboard illustration | Chalkboard illustrations Chalkboard illustration | Maths book 6 page 213 – 214 P.6 curr pg 171-172 | | | | | | | | | | | | |
|------|---------------------|----------------|-------------------------|--|---|--|---|--|---|---|--|-----|--------|--------|------|------|-------|--------|---|-------------------------------|--|--------------------------|----------------------------------|
| 3 | MEASUREMENTS | MONTHLY | Completing bills | The learner: - studies the bills - identifies the missing parts in a bill. | - reads and comprehends statements - uses words like | Completing bills Example Study and complete the bill correctly. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Item</th> <th>qty</th> <th>unit C</th> <th>amount</th> </tr> </thead> <tbody> <tr> <td>Sug</td> <td>4kg</td> <td>1200/=</td> <td>4800/=</td> </tr> <tr> <td>Soap</td> <td>2brs</td> <td>700/=</td> <td>1400/=</td> </tr> </tbody> </table> | Item | qty | unit C | amount | Sug | 4kg | 1200/= | 4800/= | Soap | 2brs | 700/= | 1400/= | <u>Effective communication</u> fluency confidence <u>Problem solving</u> | Explanation Discussion | Completing tables by multiplying, dividing | Chalkboard illustrations | Mk. Maths book 6 page 215-216 |
| Item | qty | unit C | amount | | | | | | | | | | | | | | | | | | | | |
| Sug | 4kg | 1200/= | 4800/= | | | | | | | | | | | | | | | | | | | | |
| Soap | 2brs | 700/= | 1400/= | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|---|---------------------|--------------|-------------------|--|---|---|---|---|---|-------------------------|---|---------------------------|
| | | | | | - completes the shopping bills correctly. | expenditure and bills correctly. | c.oil 3litres 1500/= 4500/= Shs 107,000/= | taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others caring for others | Question and answer Brain storming | g and adding. | | P.6 curr pg 171-172 |
| 4 | MEASUREMENTS | MONEY | Currencies | The learner: - draws a table for exchange rate. - copies notes | - names money or currencies for different countries - reads and uses the vocabulary correctly. | Money Uganda and other currencies Country currency Uganda Uganda shilling Kenya Kenya shilling Tanzania Tanzania sh. Rwanda Rwanda Franc Zambia Kwacha S.Africa Rand USA US dollar Britain Pound Sterling Japan Japanese Yen European Union Euro German Deutchsh Mark Rates | <u>Effective communication</u> fluency confidence <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others | Explanation Guided discovery Question and answer Brain storming | Field trip to Forex Bureau | Table of exchange rates | Mk Maths book 6 page 219 P.6 curr pg 171-172 | |

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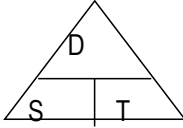
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------|---------------|-----------------------|--|--|---|---|---|------------------------------|----------------------------------|---|------|------|---------|------|------|---------|----|----|--------|-----|-----|-------|------|------|------|-----|---|-------------------|--|--|--|--|--|
| | | | | | | | <table border="1"> <tr> <td colspan="3">Currencies buying selling</td> </tr> <tr> <td>1 Pound</td> <td>2500</td> <td>2550</td> </tr> <tr> <td>1 Us \$</td> <td>1700</td> <td>1720</td> </tr> <tr> <td>1K.shs.</td> <td>19</td> <td>20</td> </tr> <tr> <td>1 Rw.F</td> <td>1.9</td> <td>2.2</td> </tr> <tr> <td>1Euro</td> <td>1520</td> <td>1560</td> </tr> <tr> <td>1 TZ</td> <td>1.6</td> <td>2</td> </tr> </table> | Currencies buying selling | | | 1 Pound | 2500 | 2550 | 1 Us \$ | 1700 | 1720 | 1K.shs. | 19 | 20 | 1 Rw.F | 1.9 | 2.2 | 1Euro | 1520 | 1560 | 1 TZ | 1.6 | 2 | caring for others | | | | | |
| Currencies buying selling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Pound | 2500 | 2550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Us \$ | 1700 | 1720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1K.shs. | 19 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 Rw.F | 1.9 | 2.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1Euro | 1520 | 1560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 TZ | 1.6 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | MEASUREMENTS | MOONEY | Exchange rates | <p>The learner:</p> <ul style="list-style-type: none"> - converts Uganda currency to other currencies and viceversa. - describes steps of converting one currency to another verbally. | - reads, counts and writes currency rates correctly. | <p>Uganda and other currencies</p> <p>Example</p> <p>The exchange rate in Kenya for Uganda shilling is 1kshs= 25 ug shs. How much Ug. Shs will Kassim get from his 250 ksh?</p> <p>1sh = 25Ug. Shs 250Ksh.= 250x 25 = 6250/= (Ug)</p> | <p><u>Effective communication</u></p> <p>fluency confidence</p> <p><u>Problem solving</u></p> <p>taking decision</p> <p><u>Values</u></p> <p>co-operation</p> <p>self esteem</p> <p><u>Interpersonal relation</u></p> <p>forgiving others</p> <p>caring for others</p> | <p>Explanation</p> <p>Guided discovery</p> <p>Question and answer</p> <p>Discussion</p> <p>Brain storming</p> | <p>Converting currencies</p> | <p>Chalk board illustrations</p> | <p>Mk. Maths book 6 page 219 - 221</p> <p>P.6 curr pg 171-172</p> | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | MEASUREMENTS | MO | Finding number | <p>The learner:</p> <ul style="list-style-type: none"> - calculates the amount | - reads and comprehends | <p>Uganda currency.</p> <p>Uganda currency includes coins and bank notes.</p> | <u>Effective communication</u> | Explanation | Finding number of | Bank notes | Mk. Maths book 6 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|--|--|-----------------|--|--|--|---|--|--|--|---|--|--|
| | | EM ENT S | NE Y | er of notes | of money in a bundle. - counts bank notes | nds given statements . - writes the given statements | Example Banks notes are in a bundle numbered from AP003782,to AP003881. a) How many notes are in the bundle? AP003881 AP003782 99 Formula used is $n + 1$ N represents notes found in the range. $= 99 + 1$ $= 100$ notes b) If each note is sh.500/= how much money is in the bundle? 1note = sh. 5000/= 100 notes –Sh.5000x 100 $= \text{sh. } 500,000/=$ | fluency confidence <u>Problem solving</u> taking decision <u>Values</u> co- operation self esteem <u>Interperson al relation</u> forgiving others caring for others | Guided discov ery Questi on and answer Discus sion Think, pair & share | notes in a bundle. - calcula ting amoun t of money in a bundle. | Chalk board illustra tions | page 218 P.6 curr pg 171- 172 | |
| 7 | ME AS UR EM ENT S | Di st an ce ti m e & sp | TIME | The learner: - measures time - changes hours to minutes - reads the clock face. | - reads and comprehe nds given statements . - writes hours, minutes | Conversion of time from one unit to another unit. -Relationship of units 1hour = 60minutes 1minute =60 seconds 1 hour = 3600 seconds Examples 1. Change 4 hours to minutes 1 hour = 60min 4hours= 60 x 4min | <u>Effective communica tion</u> fluency confidence <u>Problem solving</u> taking decision <u>Values</u> | Explan ation Demon stration | Relatin g units changi ng hours to minute s | Clock face Chalk board illustra tions | Unders tanding Mathe matics book 6 MK Maths book 6 | | |

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| | | | eed | | | and seconds | <p>= 240 min</p> <p>2. Change 4 minutes to seconds $1\text{min} = 60\text{ seconds}$ $4\text{min} = 60 \times 4$ $= 240\text{ seconds}$</p> <p>3. How many seconds are there in 1 hour? $1\text{hr} = 60\text{ min}$ $1\text{min} = 60\text{ sec}$ $1\text{hr} = 60 \times 60$ $= 3600\text{ seconds}$</p> | co-operation self esteem <u>Interpersonal relation</u> forgiving others caring for others | Question and answer | changing minutes to seconds Changing hours to seconds | | page 222 P.6 curr pg 171-172 |
| 9 | 1 | MEASUREMENTS | Distance & speed | Time | The learner: - changes minutes to hours. - changes seconds to hours. | - reads units used to measure time. - writes units used to measure unit. | Conversion of time - Changing minutes to hours Example Change 360 minutes to hours $60\text{min} = 1\text{hr}$ $1\text{min} = \frac{1}{60}$ $360\text{ min} = \frac{1}{60} \times 360$ $= 6\text{hours}$ Changing seconds to hours Example Change 18000 seconds to hours $3600\text{ sec} = 1\text{hr}$ $1\text{sec} = \frac{1}{3600}$ $18000\text{ sec} = 1 \times 18000$ | <u>Effective communication</u> fluency confidence <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others | Explanation Discussion Question and answer Gallery walk | Expressing minutes and seconds to hours. | Chalk board illustrations | Mk Maths book 6 page 223 P.6 curr pg 171-172 |

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|---|---------------------|------------------|-------|---|---|---|---|---|---|---|--|---------|--|
| | | | speed | | | - writes anti meridian and prime meridian | 07:10hrs 2) 7:10pm If it is in pm, add 1200 hours 7:10pm <u>+12:00hrs</u> 19:10 hrs | taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others caring for others | Question and answer Brain storming | | | 171-172 | |
| 4 | MEASUREMENTS | Distance & speed | Time | The learner: - changes 2400 time to 1200 hour time - subtract 1200hrs or 0000 hrs | - reads and writes time in a.m or p.m - writes time in a.m and p.m | Changing 2400 hour time to 1200hour time Example 1) change 0025 hours to 1200hour time. 0025hrs <u>+1200hrs</u> 1225 = 12:25am 2)Express 1450 hours as 12hour clock system. 1450hrs 1200hrs 250 = 2:50pm | <u>Effective communication</u> fluency confidence <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem forgiving others caring for others | Explanation Guided discussion Question and answer Brain storming | Changing 2400 hour time to 1200 hour time | A chart showing the 1200 hour time and 2400 hour time | Mk. Maths book 6 page 200 P.6 curr pg 171-172 | | |

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| 5 | MEASUREMENTS | Distance & speed | Time | The learner: - finds the directions of time from a.m to p.m and from p.m to a.m | - reads and writes the statements - writes duration in hours. | Duration of time with am and pm Example My sister was sleeping from 4:00am to 3:00pm. For how long was my sister sleeping? 3:00pm } change both am and pm to 2400 4:00am } Hour time 3:00pm 4:00am <u>+12:00hrs</u> <u>+00:00hrs</u> 15:00hrs 04:00hrs 1500hrs <u>-0400hrs</u> 1100 | <u>Effective communication</u> confidence <u>Problem solving</u> taking decision <u>Values</u> self esteem <u>Interpersonal relation</u> forgiving others caring for others | Explanation discussion Question and answer Think, pair & share | Finding duration | Chalk board illustration | Mk. Maths book 6 page 224-225 P.6 curr pg 171-172 |
| 6 | MEASUREMENTS | Distance & speed | Time | The learner: - applies formula to find distance - finds distance | - reads and writes the statements - writes duration in hours | Finding distance Example Find the distance travelled by a car in 2hours at a speed of 60km/hr  $D = S \times T$ $= 60\text{km/hr} \times 2\text{hrs}$ $= 120\text{km}$ | <u>Effective communication</u> fluency <u>Problem solving</u> taking decision <u>Values</u> co-operation <u>Interpersonal relation</u> | Explanation Guided discussion Question and answer Problem solving | Finding distance when given time and speed | Chalk board illustrations | P.6 curr pg 171-172 |

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| | | | | | | | | forgiving others | | | | | |
| 7 | MEASUREMENTS | Distance & speed | Time | The learner: - finds duration between departure and arrival. - solves problems to find distance | - reads and interprets the statements - writes the statements | Finding distance Example A bus which travels at 50km/hr leaves Mbarara at 7:30am and arrives at Mbale at 1:30p.m. What is the distance between Mbarara and Mbale? $D = S \times T$ Time from Mbarara to Mbale is missing T = 1:30pm change to -7:30am 2400hour Clock 1:30pm 7:30am <u>+12:00hrs</u> <u>+00:00hrs</u> 13:30hrs 07:30hrs 1330hrs -0730hrs 600= 6hrs $D = S \times T$ = 50km/hr x 6hrs = 300km | <u>Effective communication</u> fluency confidence <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others caring for others | Explanation Guided discussion Question and answer Problem solving Market stall | Finding duration - distance | Chalk board illustrations | Mk Maths book 6 page 230 P.6 curr pg 171-172 | | |
| 10 | MEASUREMENTS | Distance | Time | The learner: - identifies units used for time. | - reads, spells and writes the word time | Time: Finding time Example | <u>Effective communication</u> fluency | Explanation | Finding time | Chalk board illustr | Mk Maths book 6 | | |

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| | | ENTS | time & speed | - finds time when given distance and speed. | | How long will a car take to cover a distance of 120km at a speed of 40kph? $T = \frac{D}{S}$ $\frac{120}{40}$ $= 3\text{hrs}$ | <u>Problem solving</u> taking decision <u>Values</u> self esteem <u>Interpersonal relation</u> forgiving others | Guided discussion Question and answer Problem solving | | ations | page 231 P.6 curr pg 171-172 | |
| 2 | MEASUREMENTS | Distance & speed | Time | The learner: - identifies units used to measure speed. - applies formula to find speed. | - reads, spells and writes the word time | - reads and interpretes the statement. - writes the statement | <u>Effective communication</u> confidence <u>Problem solving</u> taking decision <u>Values</u> self esteem <u>Interpersonal relation</u> caring for others | Explanation Guided discussion Question and answer Problem solving | Calculating for speed | Chalk board illustrations | Mk Maths book 6 page 234-235 P.6 curr pg 171-172 | |

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| 3 | MEASUREMENTS | Distance & speed | Time | The learner: - relates units e.g km to ms - expresses speed from km/hr to m/second | - reads units used to measure speed. - names units. - writes correct units. | Expressing kilometers per hour to metres per second Example Express 72km/hr as m/second $1\text{km} = 1000\text{m}$ $1\text{hr} = 3600\text{sec}$ $= 72 \times 1000\text{m}$ $1 \times 3600\text{sec}$ $= 2 \times 10\text{m}$ 1 sec $= 20\text{m/sec}$ | <u>Effective communication</u> fluency <u>Problem solving</u> taking decision <u>Values</u> self esteem <u>Interpersonal relation</u> forgiving others | Explanation Guided discussion Question and answer Problem solving | Expressing speed from km/hr to mps | Chalk board illustrations | Mk. Maths book 6 page 236-237 P.6 curr pg 171-172 |
| 4 | MEASUREMENTS | Distance & speed | Time | The learner: - relates units - expresses speed from metres per second to kilometer per hour. | - reads units used to measure - writes correct units. | Expressing metres per second to kilometers per hour Example Change 20m/sec to km/hr $1\text{km} = 1000\text{m}$ $1\text{hr} = 3600\text{sec}$ $\frac{20}{1000} \div \frac{1}{3600}$ $\frac{20}{1000} \times \frac{3600}{1}$ $= 2 \times 36$ $= 72\text{kph}$ | <u>Effective communication</u> fluency <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> | Explanation Guided discussion Question and answer Problem solving | Changing speed from m/sec to km/hr | Chalk board illustrations | Mk Maths Book 6 page 237 P.6 curr pg 171-172 |

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| | | | | | | | forgiving others | | | | | |
| 5 | MEASUREMENTS | Distance & speed | Time | The learner: - calculates the average speed. - adds time - adds distance | - reads and interprets the statements - writes the statement | Average speed Finding average speed Example A car takes 3 hours to cover a certain journey of 60km/hr and takes hours to return. Calculate its average speed. 1 st journey (going) $D = S \times T$ $= 60\text{kph} \times 3\text{hrs}$ $= 180\text{km}$ Return (coming back/same journey) $S = \frac{D}{T}$ $= \frac{180\text{km}}{2\text{hrs}}$ $= 90\text{kph}$ $A/S = \frac{T/D/C}{T/T/T}$ $= \frac{180\text{km} + 180\text{km}}{3\text{hrs} + 2\text{hrs}}$ $= 360$ 5hrs $= 72 \text{ km/hr}$ | <u>Effective communication</u> fluency confidence <u>Problem solving</u> taking decision <u>Values</u> co-operation self esteem <u>Interpersonal relation</u> forgiving others caring for others | Explanation Discussion Question and answer | Calculating average speed | Chalk board illustrations | Mk Maths book 6 page 238 P.6 curr pg 171-172 | |