P.6 MATHEMATICS SCHEME TERM II

WK	PD	THEME	TOPIC	SUB	COMPE	TENCES	CONTENT	METHOD	ACTIVITIES	SKILLS	T/A	REF
	4			TOPIC	Subject	Language						
1	1	,		multiplication of whole by fractions and vice versa	The learner; multiplies fractions and whole correctly	The learner; Reads, uses the key words	Example 1 Multiply: $6 \times \frac{2}{3}$ $6 / 1 \times \frac{2}{3} = 12 / \frac{4}{3} = 4 \text{ answer}$ Example 2 Calculate $3 / 4$ of 12 $3 / 4 \times 12 / 1 = 36 / 4 = 9 \text{ answer}$	Guided discovery Brain storming	Multiplying fractions by wholes	Effective communication Problem solving	Counters , fruits	New MK primary maths book 6 page 46 Fountain book 6 page 60 – 61
		Numeracy	Fractions	multiplica				• •	•	• •	•	• •
2	2	Numeracy	Fractions	Multiplication of a fraction by a fraction	The learner; multiplies fractions correctly	The learner; Reads, spells, uses words like product, -numerator -denominator	Example 1 Simplify: $\frac{3}{4} \times \frac{1}{2} = \frac{3x1}{4x2} = \frac{3}{8}$ answer Example 2 What is $\frac{2}{5}$ of $\frac{3}{4} = \frac{2x3}{5x4} = \frac{6}{20} = \frac{3}{10}$ answer Example 3 2 Workout $2\frac{1}{3} \times 1\frac{1}{5} = \frac{7}{3} \times \frac{6}{5} = \frac{7x2}{1x5} = \frac{14}{5} = 1\frac{4}{5}$ ans 1	Guided discussion Guided discovery	Multiplying fractions by fractions	Critical thinking Effective communication	Charts showing working and chalkboard illustration	New MK primary MTC book 6 page 47Fountain MTC book 6 page 61

1	3				The learner;	The learner;	Example 1					
					Finds the reciprocal of fractions	Reads, spells, pronounces and writes the words -multiplicative - inverse, -reciprocal	What is the reciprocal of 4 Let it be K $4 \times k = 1 \ 4k = 1 \ \frac{4k}{4} = \frac{1}{4} = K = \frac{1}{4} \text{ answer}$					
							Example 2 Find the reciprocal of $\frac{3}{5}$ $\frac{3}{5} \times t = 15 \times \frac{3t}{5} = 1 \times 5 = \frac{5}{3} = \frac{5}{3} = \frac{2}{3} \text{ answer}$		bers			48
		Numeracy	Fractions	Finding reciprocal			Examples 3 What number must be multiplied by 0.7 to give 1? Let the number be P $0.7 \times P = 1 \frac{7}{10} \times P = 1 \cdot 10 \times \frac{7P}{10} = 1 \times 10$ $\frac{7P}{7} = \frac{10}{7} = \frac{10}{7} = 1 \cdot \frac{3}{7} = 1 \times 10$ Answer	InquiryBrain stormingProblem solving	Finding the reciprocals of numbers	Effective communicationCreative thinking	 Charts and text books 	MK Primary <tc 48<="" 6="" book="" page="" th=""></tc>
1	4	n _N	Fr	Division of wholes by fraction and vice versa	The learner; divides fractions	The learner; Reads, spells, pronounces and used the words -Quotient -Divided -Divisor	Example 1 Divide 2 by $\frac{2}{3}$ $2 \div \frac{2}{3} = \frac{2}{1} \times \frac{3}{2} = \frac{1 \times 3}{1 \times 1} = \frac{3}{1} = 3$ answer Example 2 If $4\frac{1}{2}$ is divided, 36 is the divisor. Find their quotient	Guided discovery Brain storming	Dividing numbers	Effective communication Problem solving	Chalkboard illustration	MK. Primary MTC book 6 page 49 Fountain MTC book 6 page 62.
		Numeracy	Fractions	Division of v			$\begin{vmatrix} \frac{1}{2} \div 36 &= \frac{9}{2} \div \frac{36}{1} &= \frac{9}{2} \times \frac{1}{36} &= \frac{1x1}{2x4} &= \frac{1}{8} \\ \text{answer} \\ \frac{1}{4} &= \frac{1}{2} \times \frac{1}{36} &= \frac{1}{2} \times \frac{1}{36} &= \frac{1}{2} \times \frac{1}{36} &= \frac{1}{8} &$	• •	•	• •	0	• •

			Example 4 Workout $ \frac{3}{5} + \frac{1}{10} $ $ \frac{3}{5} + \frac{10}{1} $ 1			
			$\frac{3x2}{1x1}$			
			$\frac{6}{1}$ 6 answer			

1	6			The learner; Adds, subtracts, multiplies and	Example 1 Divide $\frac{1}{2}$ of (15÷	3)					
				divides fractions Applies BODMAS	BODMAS	$\frac{1}{2}$ of 5 = $\frac{1}{2}$ x $\frac{5}{1}$ = $\frac{5}{2}$ = $2\frac{1}{2}$ answer					
					Example 2 Workout: $\frac{2}{3}$ of BODMAS						
					$\begin{cases} \frac{2}{3} \text{ of } \frac{3}{4} \\ \frac{1}{3} \\ \frac{2}{3} \\ \frac{2}{3} \\ \frac{3}{4} \\ \frac{3}{2} \end{cases}$	$\frac{1}{2} \frac{2}{3} \left\{ \frac{3}{4}, \frac{1}{3}, \frac{1}{2} \right\} $ $+ \frac{1}{3}$					
					$= \frac{1}{2} + \frac{1}{2} - \frac{1}{3}$	$ \frac{\text{Method 2}}{\frac{1}{2} + \frac{1}{2} - \frac{1}{3}} $					
					= LCD ÷ 6 $= (\frac{1}{2} \times 6) + (\frac{1}{2} \times 6)$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
					$= \frac{3+3-2}{6}$	$\begin{array}{ c c }\hline 6-2\\\hline 4^2\\\hline \end{array}$	u.	wledge of BODMAS	nication	tration	book 6 page 51 ook 6 page 65
		ıcy	શ્		$=\frac{\cancel{4}}{\cancel{6}} = \frac{2}{3} \text{ answe}$	$\frac{6}{2}$	Guided discussion Guided discovery Brain storming	Applying the knowledge	Problem solving Effective communication	Chalk board illustration	MK Primary MTC book 6 page 51 Fountain MTC book 6 page 65
		Numeracy	Fractions				• • •	•	• •	•	• •

Evample 2	Т	I	I	
Example 3 Evaluate				
$1\frac{1}{2} - 2\frac{1}{3} + 1\frac{1}{4}$				
$\frac{1}{2} - \frac{2}{3} + \frac{1}{4}$				
BODMAS				
1 1 1				
$1\frac{1}{2} + 1\frac{1}{4} - 2\frac{1}{3}$				
3 5 7				
$\frac{3}{2} + \frac{5}{4} - \frac{7}{3}$				
2 4 3				
LCD (12)				
3 5 7				
$(\frac{3}{2} \times 12) + \frac{3}{4} \times 12) - (\frac{7}{2} \times 12)$				
$\frac{(\frac{3}{2} \times 12) + \frac{5}{4} \times 12) - (\frac{7}{3} \times 12)}{12}$				
(3x6) + (5x3) - 7x4				
12				
$\frac{33-28}{12}$				
12				
$\frac{5}{12}$				
12				
Example 4				
Example 4				
Simplify: $1\frac{1}{3} \times \frac{3}{5} + \frac{1}{4} \div 1\frac{1}{2} - \frac{3}{4}$				
Simplify: $1 - \frac{1}{3} \times \frac{1}{5} + \frac{1}{4} \times \frac{1}{2} - \frac{1}{4}$				
$= \frac{4}{3} \times \frac{3}{5} + \left\{ \frac{1}{4} \div \frac{3}{2} \right\} \frac{3}{4}$				
3 ^ 5 7 4 2 4				

			$= \frac{4}{3} \times \frac{3}{5} + \left\{ \frac{1}{4} \times \frac{3}{2} \right\} - \frac{3}{4}$		
			$= \frac{4}{3} \times \frac{3}{5} + \left\{ \frac{1}{4} \div \frac{2}{3} \right\} - \frac{3}{4}$		
			$= \frac{4}{3} \times \frac{3}{5} \cdot \frac{1}{6} - \frac{3}{4}$		
			$= \frac{4}{5} + \frac{1}{6} - \frac{3}{4}$		
			$\left\{\frac{1}{6} \times 60\right\} + \left\{\frac{1}{6} \times 60\right\} - \left\{\frac{1}{6} \times 60\right\}$		
			$\frac{48+10-45}{60}$		
			$\frac{52-45}{60} = \frac{13}{60}$ answer		

1	7	Numeracy	Fractions	Addition of decimals	The learners add decimals correctly	The learner Reads, spells, pronounces and uses the key word -point -decimal places -sum	Example s Add: 4.8 + 6.75 + 15. 579 4.800 6.750 + 15.579 27.129 answer Example 2 A rope is 8.36m long . Another rope is 6.78m long. What is the total length of the two ropes? 8.36m + 6.78m 15.14m answer	Guided discovery Whole class discussion	Adding decimals	Critical thinking Effective communication	Chalk board illustration and cahrts	 MK Primary MTC book 6 page 55 Fountain MTC book 6 page 70 - 71
2	1	Numeracy	Fractions	Subtraction of decimal	The learner; Subtracts decimals	The learner; Reads, spells, pronounces and writes the words difference and take away	Example 1 Subtract 6.506 from 9.23 9. 2 3 0 -6. 5 0 4 -2.7 2 6 answer Example 2 Alex lost 1.8 points out of 9.6. How many points did he score Out of 9.6 Lost 1.8 Scored 7.8 answer	Inquiry Brain storming	Subtracting decimals	Problem solving Effective communication	Chalkboard illustration and charts	MK Primary MTC book 6 page 56
2	2	Numeracy	Fractions	Addition and subtraction of decimals	The learner; Identifies the operation symbols Rearranges correctly	The learner; Reads, spells and pronounces the words		Guided discoveryProblem solving	Adding and subtracting	Creative thinking	Charts	MK Primary MTC book 6 page 57

2	3			The learner; Multiplies decimals correctly	The learner; Reads, spells, pronounces and uses the key words -product -times	Example 1 Multiply: 3.75×18 Or $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					5 page 58-60
		Numeracy	Fractions Multiplication of decimals			$ \frac{17}{100} \times \frac{5}{10} \qquad \text{Or} \qquad 0.17 \qquad \text{D.Ps} = 3 $ $ \frac{\times 0.5}{85} \qquad 0.85 $ $ \frac{85}{1000} \qquad 0.85 $ $ = 0.085 \text{ answer} $	Guided discovery Whole class discussion	Multiplying decimals	Creative thinking Effective communication Problem solving	•	MK Primary MTC book 6 page 58-60
2	4	Numeracy	Fractions Provision of decimals	The learner; Divides decimals	The learner; Reads, spells, Pronounces and used the key words -share -divide -quotient -division	Example 1 Divide: $24 \div 0.03$ 8 $24 \div \frac{3}{100} = \frac{24}{1} \times \frac{100}{3} = 8 \times 100 = 800$ Example 2 Simplify: $20.4 \div 0.2$ $\frac{204}{10} \div \frac{2}{10} = \frac{\frac{102}{204}}{10} \times \frac{10}{2} = \frac{102x1}{1x1} = \frac{102}{1} = 102$	Guided discovery	Dividing decimals	Effective communication Critical thinking	Charts showing worked examples	MK Primary MTC book 6 page 61–63

2	5				The learner; Multiplies decimals Divides decimals	The learner; Reads, spells, pronounces and uses key words -product -share	Example 1 Divide: $24 \div 0.03$ $24 \div \frac{3}{100} = \frac{24}{1} \times \frac{100}{3} = 8 \times 100 = 800$					
		Numeracy	Fractions	Multiplication and division of decimals			Example 2 Workout: $(0.12 + 0.2) \div 0.8$ $\begin{array}{c} 0 \cdot .12 \\ $	Inquiry Brain storming	 Multiplication Multiplying and Dividing decimals 	Problem solving Effective communication Creative thinking	Chalkboard illustration	MK Primary MTC book 6 page 64 – 65
2	6	Numeracy	Fractions	Expressing ratios as fractions and vice versa	The learner; Describes a ratio Expresses ratios as fractions	The learner, Reads, spells, pronounces and uses the words	Example 1 Nankinga served $\frac{3}{5}$ of her birthday cake. Express the part served as a ratio $\frac{3}{5} = 3:5$ Example 2 The ratio of boys to girls in a class is 3:4. Express this as a fraction $3:4 = \frac{3}{4}$	Guided discoveryInquiry	Changing fractions as ratios	Effective communication	•	MK Primary MTC book 6 page 66 – 67

Expresses	pronounces and writes key words -ratio -quantities
Expressing quantinties as	Identifies quantities Expresses quantities to ratios

							Example 3 Express 30cm as a ratio of 5m $(1m = 100cn)$ $5m = 5 \times 100cm = 500cm$ $30cm : 500cm$ $\frac{30}{10} : \frac{500}{10}$ $\frac{3}{50} = 3:50$					
2	7	Numeracy	Fractions	Recurring of decimals	The learner' Divides common fractions Finds recurring decimals	Recurring	3:50 Express $\frac{5}{9}$ as a decimal $\frac{5}{9} = 5 \div 9$ 9 0.55 9 0.50 0.45 0.45 0.45 0.45 0.45 Therefore; $\frac{5}{9} = 0.5$ Example 2 Change $\frac{3}{11}$ to a decimal $\frac{3}{11} = 3 \div 11$ $1 \int_{0.2727}^{0.2727} 1 \int_{0.2727}^{0$	Demonstration Guided discovery	Dividing fraction using long division	Problem solving	Chalkboard illustration	Teacher's own collection

2	8	Numeracy	Fractions	Finding fractions for the recurring decimals	Forms an algebraic equations Solves algebraic equations Finds common fractions	The learner; Reads, spells and pronounces new words Recurring	Express 0.44 as a common fraction in its lowest form . Let the fraction be p. $P = 0.44$ $10p = 4.44$ $10p - p = 4.44$ $\frac{-0.44}{P} = \frac{4.00}{9}$ 1 Therefore; $P = \frac{4}{9}$	•	•	•	•	•
3	1	Numeracy	Fractions	Word application involvinging ratios	The learner; Solves problems involving ratios	The learner; Reads, spells and pronounces the key words	Example 1 Mary and Joan have oranges in the ratio of 2:3 respectively. If many has 10 oranges, how many oranges does Joan have? Mary Joan 2x 3x 10 oranges ? $ 2x = 10 1 5 2x 2 = \frac{10}{2} 1 1 x = 5 3x = 3 \times 5 3x = 15 \text{ oranges} Therefore Joan has 15 oranges Or Total ratio = 2 + 3 = 5 Total number of oranges be k \frac{2}{5} \text{ of } k = 10 8 \times \frac{2}{5} k = 10 \times 5 2k = 50$	Guided discovery Inquiry Brain storming	Solving problems involving ratios	Critical thinking Problem solving Effective communication	Chalk board illustration	MK MTC book 6 page 129

							$\frac{2k}{2} = \frac{50}{2}$ 1 $K = 25$ Joan's share $\frac{3}{5} \times 25$ $3x5 = 15 \text{ oranges}$					
3	2	Numeracy	Fractions	Increasing quantities in a given ratio	The learner; Identifies quantities is a given ratio Increases quantities in a given ratio	The learner; Identifies quantities in a given ratio Increases quantities in a given ratio	Example 1 Increase sh. 200 in the ratio of 5:4 New: Odd = New: old $5:4 = y : 200$ $\frac{5}{4} = \frac{y}{200} = LCD = 200$ $\frac{50}{(200 \times \frac{5}{4})} = (\frac{yx200}{200}) = (50 \times 5) = y \qquad 250 = y \qquad y = 250/= 1$ OR $\frac{5}{4} \text{ of sh. } 200 = \frac{5}{1} \times \text{sh. } 200 = 5 \times \text{sh. } 50 = \frac{\text{sh. } 250}{1}$ OR New: old $\frac{5}{5}:4$?: 200 4 parts = sh. 200	Guided discovery Brain storming	Increasing quantities	Critical thinking Effective communication	•	MK primary MTC book 6 page 130 Fountain MTC book 6 page 79

3	3	Numeracy	Fractions	Finding the ratio of increase	The learner; Identifies the ratio of increase Finds the ratio of increase	The learner; Reads, spells, pronounces and uses the words -ratio -increase -add	Example 1 A man's salary was sh. 10,000. It has been increased to sh. 12,000. In what ratio has it increased? Ratio = $\frac{New}{Old} = \frac{sh.12000}{Sh.10000} = \frac{12}{10} = \frac{6}{5} = 6.5$ Examples 2 The class has 35 pupils. The number has now increased by 5 pupils. In what ratio has the number increased? Old = 35 pupils New = $(35 + 5)$ pupils = 40 pupils Ratio = $\frac{New}{Old} = \frac{40 \ pupils}{35 \ pupils} = \frac{40}{35} = \frac{8}{7} = 8.7$	Guided discussion Inquiry Brain storming	Finding the ratio of increase	Critical thinking Effective communication	Chalkboard illustration	MK Primary mTC book 6 page 131
3	4	Numeracy	Fractions	Decreasing quantities in a given ration	The learner Decreases quantities in a given ratio correctly	The learner; Reads, spells, pronounces and uses the words decrease, reduce, ratio	Example 1 Decrease 400 in a ratio of 3:4 New : Old 3 : 4 ? : 400 100 1 part = $\frac{400}{4}$ 1 parts = $\frac{400}{4}$ 1 parts = $\frac{400}{4}$	Whole dass discussion Guided discovery	Decreasing quantities in a given ratio	Effective communicationProblem solving	• Charts	MK Primary MTC book 6 page 132

3	5				The learner; Finds the ratio of decrease	The learner; Reads, spells, pronounces and use the vocabulary words -ratio	3 parts = 100×3 3 parts = 300 $\frac{OR}{3} \frac{3}{4} \text{ of } 400$ 3×100 300 answer $4 \text{ parts} = 400$ 100 $1 \text{ part} = \frac{400}{4}$ 1 $1 \text{ part} = 100$ 3 parts = 3×100 Therefore 3 parts = 300 answer $\frac{Example 1}{1}$ The number of pupils in the class has decreased from $40 \text{ to } 35. \text{ In what ratio has the number decreased?}$ New salary = $(500,000 - 100,000) = 400,000$					
		Numeracy	Fractions	Finding the ratio of decrease		-decrease -reduce	Old salary = $500,000$ Ration $\frac{New}{Old}$ Ratio = $\frac{400,000}{500,000}$ Ratio = $\frac{4}{5}$ Ratio = $\frac{4}{5}$	Brain stormingGuided discovery	 Finding the ratio of decrease 	Creative thinkingEffective communication	•	MK Primary MTC book 6 page 133

2	6			The learner;	The learner;	Examples 1					
3				Shares quantities	Reads, Spells,	Share sh. 120 in a ratio of 1:4					
				using ratio	pronounces and uses the words						
					-share	Total ratio = 1 + 4 = 5					
					-ratio						
					-divide	24					
						1^{st} share = $\frac{1}{5}$ x sh. $\frac{120}{5}$ = 24					
						5					
						24					
						1					
						2ns share = $\frac{1}{5}$ x sh 120 = 4 x sh. 24 = sh.96					
						1					
						Example 2 In a village council meeting there were 280 people. The ratio of children					
						to women to men was 2:3:5 respectively.					
						a) How many children were in the meeting					
						Total ratio = 2 + 3 + 5 = 10					
						2					
						Children = $\frac{2}{10}$ x 280 = 2 x 20 = 56 children					
						b) How many more men than women were there?				arts	32
						5 – 3 = 2				d chi	- 135 1
										n an	134) – 8
						2 ,		atios		atior	oage ye 80
						$\frac{2}{10} \times 280 = 2 \times 28 = 56$ more men.		ing r	tion	llustr	ok 6 l
			<u>8</u>				>	sn se	ınica	ard i	S boc
			g rat			OR	ing	antitie	king mmu	 	MTC TC b
			usin			Men Women More men	torm disc	a duc	thin}	, ch	nary in M
			Fractions Sharing quantities using ratios				Brain storming Guided discovery	Sharing quantities using ratios	Critical thinking Effective communication	Money, chalkboard illustration and charts	MK primary MTC book 6 page 134 - Fountain MTC book 6 page 80 – 81
		<u>~</u>	; 			$ 1 - \frac{1}{2} \times 280 $ $ \frac{1}{2} \times 280 $ $ 140 $	සු ගු	က်	。 造	M	₹ 6
		Numeracy	tions ing c			$ \begin{array}{ c c c c c c } \hline 10 & & & & & & & & & \\ \hline =140 & & & =84 & & & & & & \\ \hline \end{array} $	• •	•	• •	•	• •
		Num	Fractions Sharing qu								
	1						<u> </u>	1	L		

3	7	Numeracy	Fractions	Finding the number shared in a given ratio	The learner; Finds the number shared in a given ratio	The learner; Reads, spells, pronounces and uses the words -ratio -share -divide	Example 1 The ratio of male to female in a club is 2:3. If there are 20 males, how many people are in the club? Total ratio = $(2 + 3) = 5$ Let the total number be x $\frac{2}{5}$ of x = 20 $8x \times \frac{2x}{5} = 20 \times 5 \times \frac{2}{5} \times x = 20$ $2x = 100$ $\frac{2x}{2} = \frac{100}{2}$ $x = 50$ people Example 2 The ratio of green to yellow fruits in a basket is 3:4. If there are 8 more yellow fruits than green, how many fruits are in the basket? Total ratio = $(3 + 4) = 7$ Let the total number of fruits be P $4 - 3 = 1$ $\frac{1}{7}$ of P = 8 $\frac{p}{7} = 8$ $\frac{p}{7} = 8$ $\frac{p}{7} = 8$ The basket has 56 fruits	 Guided discovery Problem solving Guided discussion 	Finding the number shared	 Problem solving Creative thinking 	•	MK Primary MTC book 6 page 136
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4	1	Numeracy	Fractions	Direct proportion (ratio, rates)	The learner; Applies the idea of direct proportion in ratios and rates	uses the words -direct -proportion -rates -ratio	$\frac{\text{Example1}}{4 \text{ pens cost sh 2,000. What is the cost of 7 such pens?}}$ $4 \text{ pens} = \frac{200}{4}$ $7 \text{ pens} = \frac{200}{4} \times 7$ $= 3500$ $\frac{\text{Example 2}}{\text{One book costs sh. 1500. Find the cost of 13 similar books}}$ $1 \text{ book} = 1500$ $13 \text{ books} = (13 \times 1500)$ $13 \text{ books} = 19,500$ $\frac{1500}{4} \times \frac{13}{4500} \times \frac{13}{4500} \times \frac{13}{19500}$	Guided discovery Group work Brain storming	 Multiplying members Dividing numbers 	Critical thinking Problem solving	•	MK MTC book 6 page 137 – 138
4	2	Numeracy	Fractions	Inverse (Indirect) proportion	The learner Applies inverse proportion to salve problems	The learner; Reads, spells and uses the vocabulary -inverse -proportion	Example 1 8 men can do a piece of work in 6 days. How long will 4 men take to do the same piece of work? 3 men = 6 days 1 man = (8 x 16) days 2 4 men = 8x6 / A days 1 days 1 men = 2 x 16 = 32 days Example 2 20 people can dig a piece of land in 5 days. How many more people are needed to do the same piece of work in only 2 days? 5 days = 20 people 1 day = (5 x 20) people 56	Whole class discussionGuided discovery	 Dividing numbers Multiplying numbers 	Effective communicationProblem solvingCritical thinking	Charts	MK primary MTC book 6 page 139 - 140

4	3	Numeracy	Fractions Expression percentage as fractions	The learner Describes percentage Converts percentage to fractions	The learner; Reads, spells and uses the vocabulary words—percentage—fractions	$2 \text{ days} = \frac{100}{-2} \text{ people}$ 1 $20 \text{ days} = 50 \text{ people}$ Difference $(50 - 20) \text{ people} = 30 \text{ peoples}$ $\frac{\text{Percentage}}{\text{Percentage}} \text{ means every hundred (symbol = %)}$ $\frac{\text{Example 1}}{1} \text{ Write 25\% as a fraction to its lowest term}$ $25\% = \frac{25}{100} = \frac{1}{4}$ $\frac{1}{4}$ $\frac{\text{Example 2}}{1} \text{ Change 33} \frac{1}{3} \% \text{ as a fraction}$ $33\frac{1}{3}\% = \frac{33\frac{1}{3}}{100} = \frac{100}{3} = \frac{100}{3} \div \frac{100}{1} (\frac{100}{3} \times \frac{1}{100}) = \frac{1}{3}$	Discussion Inquiry Guided discovery	Converting percentage to fractions	Problem solving Effective communication	Chalkboard illustration	A new MK primary MTC book 6 page 143
4	4	Numeracy	Fractions Channing fractions to percentages	The learner; Converts fractions to percentages	the learner; Reads, spells, pronounces the key words -percentage	$\frac{\text{Example 1}}{4}$ Convert $\frac{4}{5}$ as a percentage $\frac{4}{5} \text{ of } 100\% = \frac{4}{5} \times 100\% = (4 \times 20)\% = 80\%$ $\frac{\text{Example 2}}{1}$ Express $\frac{2}{3}$ as a percentage $\frac{2}{3} \times 100\% = \frac{200}{3}\% = 66 \frac{2}{3}\%$	Guided discovery Discussion Brain storming	Changing fractions to percentages	Problem solving Critical thinking Effective communication	Chalkboard illustration	MK primary MTC book 6 page 144

4	5	Numeracy	Fractions	Changing decimals to percentages	The learner; Coverts decimals to percentage to decimals	The learner; Reads, spells and uses the vocabulary decimal fraction point	Example 1 Change 0.6 as a percentage 0.6 of 100% $\frac{6}{100} \times 100\% = (6 \times 10)\% = 60\%$ $Or = 1 \frac{4}{10} = 1 \frac{2}{5} \%$ 0.04 $\frac{14}{1000} \times 100\% = \frac{14}{14} \% = 1.4\%$ Example 2 Convert 2.8 as a percentage $\frac{28}{10} \times 100\% = (28 \times 10)\% = 280\%$	Guided discovery Discussion Brain storming	Changing fractions to percentages	Problem solving Critical thinking Effective communication	•	MK Primary MTC book 6 page 144
4	6	Numeracy	Fractions	Changing percentages to decimals	The learner; changes percentages to decimals	The learner; Reads and uses the vocabulary -decimals -percentage -point	Example 1 Express 20% as a decimal $20\% = \frac{20}{100} = \frac{12}{10} = 0.2$ Example 2 Convert 1.5 % as a decimal $1.5\% = \frac{15}{10} \div \frac{100}{1} = \frac{15}{10} \times \frac{1}{100} = \frac{15}{1000} = 0.015$ Example 3 Change 12 ½ % as a decimal $12 \frac{1}{2} \% = \frac{25}{2} \times \frac{1}{100} = \frac{25}{200} \times \frac{1}{1000} = \frac{25}{200} \times \frac{1}{1000} = \frac{125}{1000} = \frac{125}{1000} = \frac{125}{1000} = \frac{125}{1000} = \frac{125}{1000} = \frac{1}{1000} = $	 Guided discovery Discussion Brain storming 	Changing percentage to decimal	 Critical thinking Effective communication 	Chalkboard illustration	MK primary book 6 page 145

							0. 125 8 1.000 0x 8 = $\frac{0}{10}$ 1x 8 = $\frac{8}{20}$ 2x8 = $\frac{16}{40}$ =0.125					
4	7	Numeracy	Fractions	Expressing ratios as percentages	The learner Identifies the ratio Expresses the ratio to percentage	The learner Reads, spells , pronounces the key words -ratio -percentage	Example 1 Express 2:3 as a percentage 2:3 = $\frac{2}{3}$ x 100% = $\frac{200}{3}$ % = $66\frac{2}{3}$ % Example 2 Convert 7:8 to percentage 25 7:8 = $\frac{7}{8}$ of 100% = $\frac{7}{8}$ x 100% = $\frac{175}{2}$ % = 87 $\frac{1}{2}$ % or 87.5%	Guided discoveryBrain storming	Expressing ratios as percentages	Critical thinkingEffective communication	•	MK primary MTC book 6 page 146
5	1	Numeracy	Fractions	Changing percentages to ratios	The learner; Identifies the percentages Changes the percentage to ratios	The learner; Reads and uses the correctly given words -ratio -percentage	Example 1 Express 60% as a ratio $60\% = \frac{60}{100} = \frac{60}{100} = \frac{60}{100} = \frac{60}{100} = \frac{3}{5} = 3:5$ Example 2 Change 37 $\frac{1}{2}\%$ as a ratio $37\frac{1}{2}\% = \frac{75}{2} \div \frac{100}{1} = \frac{3}{2} \times \frac{1}{100} = \frac{3x1}{2x4} = \frac{3}{8} = 3:8$	 Inquiry Brain storming Guided discussion 	 Expressing ratios as percentages Expressing percentages as ratios 	Problem solving Effective communication	Charts	MK primary MTC book 6 page 146

5	2	ıcy	SI	Finding parts of percentage	The learner; Identifies the percentage points Finds the parts of percentage	The learner Reads, spells, pronounces and uses the words -percentage	Example 1 If 80% of the class are boys, what percentage are girls? Boys = 80% Girls = 100% - 80% Girls = 20% Example 2 Musisi covered 30% of his journey by car and 55% by Bus. What percentage of the journey was left? Entire journey = 100% Journey covered = (30% + 55%) = 85%	Brain storming Inquiry Whole class discussion	Finding parts of a percentage	Problem solving Effective communication	Chalkboard illustration	MK Primary MTC book 6 page 147
5	3	Numeracy	Fractions		The learner; Compares quantities using percentage	The learner; Reads and uses the vocabulary quantities, percentage compare	Percentage left = 100% - 85% = 15% Example 1 There are 20% more boys than girls in the class (a) What is the percentage of boys? Let the girl's percentage be x. G B T X X+20% 100% (X) + (X +20%) = 100% $x+x+20\%$ = 100 $2x+20\%$ - 20% = 100% - 20%	• •	• ing percentages	• •	•	o page 148
		Numeracy	Fractions	Comparing quantities using percentage			2x = 80 1	Guided discoveryBrain stormingGuided discussion	Comparing quantities using percentages	Problem solvingCreative thinkingEffective communication	•	MK Primary MTC book 6 page 148
5	4	Numeracy	Fractions	Expressing quantities as percentages	The learner; expresses quantities as percentages	The learner; reads and uses the vocabulary words -quantities -percentage	Example Henry had 40 goats. He sold 15 of them. What percentage of the goats was sold? $\frac{15}{40} \times 100\% = \frac{75}{2}\% = 37 \cdot \frac{1}{2}\%$	Guided discovery Discussion Brain	Expressing quantities as a percentage	Critical thinking Effective	Chalkboard illustration	MK primary MTC book 6 page 149 – 150

							Not sold? $(40-15) = 25$ $\frac{25}{40} \times 100\% = \frac{125}{2} \% = 62\frac{1}{2} \%$ Or $100-37 \frac{1}{2}$ $\frac{62 \frac{1}{2} \%}{6}$					
5	5	Numeracy	Fractions	Finding quantities equivalent to percentages	The learner; Finds quantities Equivalent to percentage	The learner; Reads and uses the words -quantities -percentage	Example 1 What is 20% of 2500? 20% of 2500 = $\frac{20}{100}$ x 2 = 500 = 20 x 25 = 500 Example 2 What is 25% of 3 dozens of books? 1 dozen = 12 books 1 3 dozens = (3 x 12) books = 36 books = $\frac{-25}{100}$ x 9 books = 9 books	Inquiry Whole class discussion Brain storming	Finding quantities equivalent to percentage	Effective communication Critical thinking Problem solving	•	MK Primary MTC book 6 page 151
5	6	Numeracy	Fractions	Sharing quantities using percentages	The learner; Finds quantities Equivalent to percentage	The learner; Reads and uses the words -quantities -percentage	Example 1 In a school of 400 pupils, 30% are boys a) How many boys are in the school? No. of boys = 30% of 400 = $\frac{30}{100}$ x $\frac{400}{100}$ = 30 x 4 = 120 boys b) What percentage are girls? (100% - 30%) = 70% c) How many girls are in this school? (400 - 120) = 280 girls.	Guided discovery Rain storming	Sharing quantities using percentage	Effective communication Problem solving	•	MK Primary MTC book 6 page 152

5	7	Numeracy	Fractions	Forming and solving equation involving percentages	The learner; Forms equation Solves equation	The learner Reads, spells and used the correct vocabulary words Percentage	Example 1 If 10% of a number is 40 what is the number? Let the number be K 10% of K = 40 $ \frac{10}{100} \times K = 40 = 100 \times \frac{100}{100} = 40 \times 100 = \frac{100}{100} = \frac{4000}{100} = \frac{4000}{100} = \frac{4000}{100} = \frac{4000}{100} = \frac{1000}{100} = \frac{4000}{100} = \frac{1000}{100} = \frac{4000}{100} = \frac{4000}{1$	 Guided discovery Whole class discussion 	 Find the unknown number Forming equations Solving equations 	Critical thinking Effective communication	•	MK primary MTC book 6 page 153
6	1	Numeracy	Fractions	Increasing quantities in percentage	The learner Increases quantities by percentage	The learner; Reads and uses the words Increase quantities percentage	Example 1 Increase 200 by 25% (100% + 25%) of 200 125% of 200 $\frac{125}{400} \times 200 = 250$ Example 2 Increase sh. 4800 by 10% and then by 20% $100\% + 10\% = 110\%$ $\frac{110}{100} \times \text{sh. } 4800 = 110 \times \text{sh. } 48 = \text{sh. } 5280$	Brain storming Guided discovery	Increasing quantities by percentage	Effective communication Problem solving	•	A new MK MTC book 6 page 154 – 155

	2				The learner;	The learner	$(100\% + 20\%) = 120\%$ $120\% \text{ of shs} = 5280 = \frac{120}{100} \text{ x sh. } 5280 = \text{ sh. } 6336$ $\mathbf{Method 2}$ $\text{New } \% = 100 \% + 10\% = 110\%$ $\text{New} \% = 100\% + 20\% = 120\%$ New amount $110\% \text{ of } 120\% \text{ of sh. } 4800$ $\frac{110}{100} \times \frac{120}{100} = \text{shs. } 4800$ $11x12 \times \text{sh. } 48$ $132 \times \text{sh. } 48$ $\text{Sh. } 6336$ $\mathbf{Example 1}$					
6	2	Numeracy	Fractions	Decreasing quantities by percentage	Decreases quantities by percentage	Uses the vocabulary words Reduce decrease quantities	Decrease 300 cows by 30% (100% - 30%) -= 70% $ \frac{70}{100} \times 300 \text{cows} = (70 \times 3) \text{ cows} = 210 \text{cows} $ $ \frac{\text{Example 2}}{\text{A man's salary is $800. How much will his salary be if it's cut by}} $ $ 12\frac{1}{2}\%? $ $ (\frac{25}{2} \div \frac{100}{1}) = (\frac{\frac{25}{2}}{2} \times \frac{1}{100}) = (\frac{8}{8} \cdot \frac{1}{8}) \text{ of $800} $ $ = \frac{1}{8} $ $ 100 $ $ \frac{7}{8} \times \$ 600 = \$ 700 $	DiscussionGuided discoveryBrain storming	Decreasing quantity percentage	Effective thinkingCritical thinking	•	 MK MTC book 6 page 156 – 157

	Numeracy	Numeracy Fractions	Finding percentage profit or loss			Percentage profit = $\frac{profit}{C.P}$ x 100% 25 $\frac{400}{1600}$ x 100 = 25% 1 Example 2 Mulema bought a goat at sh. 3500 and sold it at sh. 32,000 a) Find the loss Loss = C. P 5P Loss = CP - SP Loss (Sh. 3500 = sh 3200) Loss = sh. 3000 b) Calculate the Mulema's percentage Loss = % loss = $\frac{Loss}{C.P}$ x 100% Sh. 3000 x 100% sh. 35000 $\frac{60}{7}$ %	Discussion Guided discovery	Defining profit or loss	 Critical thinking Effective communication Problem solving 	Chalkboard illustration	MK Primary MTC book 6 page 158
4	4			The learner; Describes various terms Solves problems involving interest States the formulae for finding interest	The learner; Read, spells and writes the words Interest, rate, time, principal percentage	Example 1 A farmer deposited shs. 10,000 in a bank that offers an interest rate of 10% per year. How much will the farmer get in 2 ½ years? SI = P x R x T = Shs. 120,000 x $\frac{10}{1.00}$ x 2 $\frac{1}{2}$	Inquiry Brain storming	Finding simple interest	Problem solving Effective communication creative thinking		MK primary MTC book 6 page 159-160
4			Finding simple interest Fin	Describes various terms Solves problems involving interest States the formulae for	Read, spells and writes the words Interest, rate, time, principal percentage	A farmer deposited shs. 10,000 in a bank that offers an interest rate of 10% per year. How much will the farmer get in 2 ½ years? SI = P x R x T	• Inquiry				

6	5	Interpretation of graphs and data	Data handling	Drawing bar graphs	The learner; Presents and interprets tables Draws bar graphs correctly	The learner Reads, spells and uses the words scale graph data	Wednesday, 4 Tabulate to sir Days M litres 30 A bar graph sh 50 40 0 30 20 10 0	howing No. of litre	tion WED 25 s of milk s	THUR 45 old in a wee	6 on Satu FRI 50	% on rday. SAT 35	 Guided discovery Discussion Group work 	 Drawing bar graphs Tabulating data 	Critical thinkingProblem solving	Charts	MK Primary MTC book 6 page 164 – 167
6	6	Interpretation of graphs and data	Data handling	Line graphs	The learner Interprets the data using a line graph	The learner; Reads and uses the vocabulary words graph line	and answer questions of the second se	ow shows the cosuestions that follow 1 5 6 7 8 9 1 is the cost of 1kg is the cost of 7kg many Kg can I bu much would 1 pay	of G. nuts?	13	Study the	e graph	 Guided discovery Discussion Brain storming 	Calculating simple statistics	 Critical thinking Effective communication Problem solving 	Chalkboard illustration	MK primary MTC book 6 page 170 - 172

6	7				The learner; works out simple statistics	The learner Reads, spells and pronounces key	Example Given a list of numbers 2, 4, 6, 7, 8, 3					
					Stationoo	words						
						Mode, Median	a) Find the range					
						Range	R=H-L					
						Mean Frequency	R = 8 – 2					
							R = 6					
							b) Work out the mean of the numbers					
							Mean = sum of items					
							No. of items					
							<u>2+4+6+7+8+3</u>					
							6					
							<u>30</u>					
							6					
							Mean = 5					
												72
							c) Median = 2, 3, 4, 6, 7, 8,					book 6 page 170 – 172
				ean)								e 170
				e, n			4 0 40 5		tics	_		bad
		data		rang			$\frac{4}{6} = \frac{10}{2} = 5$		statis	ation	io	9 you
		nd da		edia,			2 2	ery _	Calculating simple statistics	g nunic	Chalkboard illustration	TC Þ
		ohs a		e, a				iscov in ming	ng sir	inkin comr solvir	rd ill	MK primary MTC
		grap		ош)			d) Mode = 2, 4, 6, 7, 8 and 3	led di ussic n stor	ulatir	cal th	kboa	orima
		ion of	guil	tistic			a) Nioue - 2, 4, 0, 1, 0 and 5	Guided discovery Discussion Brain storming	Calc	Critical thinking Effective communication Problem solving	Chal	₹ X
		retati	hand	e sta					•		•	•
		Interpretation of graphs and	Data handling	Simple statistic (mode, media, range, mean)								
			٦	0,								

7	1	nd data		mean / average	The learner; applies the idea of mean to solve problems	The learner; Reads, spells and uses key words Mean Average	Example 1 The average of 3 numbers is 12. What is the sum of the 3 members Average = sum of items No. of items 3 x 12 = Sum of items x 3 3 36 = sum of items Therefore sum of the three numbers is 36 Example 2 The average mark of 4 pupils is 6 and the average mark of 4 other pupils is 8. What is the average mark of all the 8 pupils? Average of 8 = sum of items number of items = (4x 6) + (4 x8 4 + 4 = 24 + 32 = 56 = 7 8 = 8 Example 3 The average age of 8 workers is 15 years. If 2 workers whose age is. 10 years and 14 years leave the group, what is the average age of the remaining pupils?	liscovery ass discussion	simple statistics	Critical thinking Effective communication Brain storming	rd illustration	ry MTC book 6 page 173 – 174
				a)					stics			page 1
		data		werage				ssion	e statis	ication	ation	book 6
		and		ean / a			remaining pupils?	sovery s discu	simple	ıking ımmuni ing	illustra	MTC
		graphs		on me			Average age = (8 x 15) – (10- + 14)	ed disc e class	llating	al thin tive col stormi	board	rimary
		Interpretation of grap	lling	Word application on			8 -2	Guided dis Whole cla:	Calculatin	Critic Effect Brain	Chalkboar	MK primar
		rpretal	Data handling	'd appl			= <u>120 – 24 96</u> = 16years	• •	•	• • •	•	•
		Intel	Dati	Wor			6 6					

7	2	Interpretation of graphs and data	Data handling	Interpreting and drawing graphs from tables	The learner; interprets the data Draws bar graphs	The learner Reads and uses the key words data information graph	Tabulate to Days Hrs work A bar gray 50 40 30 20 10 0	to simplify MON 30 ph showing Mon	the informa TUE 40 No. of litre Tue W (Days of	es of milk s		FRI 50 sek.	SAT 35	Guided discoveryinquiryBrain storming	 Drawing bar graphs Finding range, mean, median. mode 	Critical thinking Effective communication	Chalkboard illustration	MK Primary MTC book 6 page 175 - 176
7	3	Interpretation of graphs and data	Data handling	Collecting and organizing data	The learner; Collects data Organizes Tabulates data	The learner; Uses the key words Data Tabulate Organize	10	11	age of 40	classmate 12 12 12 13 12 11 15 12	es as show 11 12 13 11	10 1 11 1 11 1 14 1 requency	4 11 3 11	Discussion Guided discovery	Collecting and organizing data	 Effective communication Critical thinking Friendship formation 	• Charts	MK Primary MTC book 6 page 177-178

7	4				The learner; Interprets and	The learners; Reads, spells and	Example 1					
					represent on pie charts	uses the words, Pie	A man spends his monthly salary as follow.					
						Chart Chicks	Food $\frac{4}{10}$, Rent $\frac{3}{10}$, Fees $\frac{2}{10}$, Saving $\frac{1}{10}$					
							Represent on a pie chart					
							Note: Degrees can be represented on a pie chart					
							Savings Food Fees $\frac{1}{10}$ Rent $\frac{3}{10}$					
							Food = $\frac{4}{10} \times 360^{\circ} = 144^{\circ}$ Rent = $\frac{3}{10} \times 360^{\circ} = 108^{\circ}$					
							Rent = $\frac{3}{100} \times 360^{\circ} = 108^{\circ}$		ırts			page 179 – 182
		ınd data					Savings = $\frac{1}{10} \times 360^{\circ} = 36^{\circ}$	sion very	Interpreting and drawing pie charts	ing munication	ustration	
		Interpretation of graphs and data	guilpu	Using pie-charts			Fees = $\frac{2}{10} \times 360$	Whole discussion Guided discovery Inquiry	Interpreting ar	Creative thinking Effective communication	Chalkboard illustration	MK Primary MTC book 6
		nterpret	Data handling	Jsing pi			= 720	• • •	•	• •	•	•
					1				1	1		

							Example 2 The pie chart represents how a man spends sh. 120, 000 in a months. Food $\frac{4}{10}$, Rent $\frac{3}{10}$, Fees $\frac{2}{10}$, Saving $\frac{1}{10}$ Represent on a pie chart Note: Degrees can be represented on a pie chart Savings $\frac{360}{1440}$					
7	5	ia			The learner; Represents and interprets data on a pie chart	The learner; Reads and explains information on a pie chart	a) How much does he spend on Rent? $ \frac{188^{0}}{360^{0}} \times \text{sh. } 12000 = (3 \times 12000) = \text{sh. } 36,000/= $ b) What fraction represents fees? $ Fees = \frac{72^{0}}{360^{0}10} = \frac{2}{5} = \frac{1}{360^{0}10} = \frac{1}{5} $ c) How much more does he spend on food than Rent? The teacher's earning is sh. 300,000, spends as shown			ation	uo	ok 6 page 183 –
		Interpretation of graphs and data	Data handling	Pie-charts involving percentage			Others 5% Rent Fees15%25% a) How much is spent on Rent? b) Which fraction represents Food? c) How much does he spend on others? d) How much more does he spend on Food than Fees?	Inquiry Discussion Guided discovery	Interpreting data	Problem solving Effective communication	Chalkboard illustration	MK primary MTC book 184

7	6	Interpretation of graphs and data	Data handling	Constructing pie-charts from fractions	The learner; constructs accurate pie charts Converts fractions to degrees	The learner; Reads and uses the words Fractions Construct	Example A man spends his money as follow $\frac{1}{4}$ on food, $\frac{1}{3}$ one rent and $\frac{5}{12}$ on others a) Draw a pie-chart using the data $Food = \frac{1}{4} \times 360^{\circ} = 90^{\circ}$ $Rent = \frac{1}{3} \times 360^{\circ} = 120^{\circ}$ $Others = \frac{5}{12} \times 360^{\circ} = 150^{\circ}$ $Others = \frac{5}{12} \times 360^{\circ} = 150^{\circ}$ $Rent = \frac{1}{120^{\circ}} \times 360^{\circ} = 150^{\circ}$	Guided discovery Discussion	Constructing pie-charts	Effective communication Critical thinking	Chalkboard illustration	 MK primary MTC book 6 page 185 – 186
7	7	Interpretation of graphs and data	Data handling	Constructing pie-charts from percentages			Example In a village 25% of the farmers grow bananas, 20% grow maize, 15% grow beans, 10% grow cotton and 30% grow coffee. a) Draw a pie chart showing the above information $ \begin{array}{cccccccccccccccccccccccccccccccccc$	 Guided discovery Inquiry Discussion 	 Changing percentage to degrees Constructing pie charts 	 Effective communication Critical thinking Creative thinking 	 Chart showing pre charts 	MK Primary MTCD book 6 page 186 – 187

8	1	Interpretation of graphs and data	Data handling	Constructing a pie chart using given data	The learner' Draws pie charts Converts data to degrees	The learners Read, spells and used the words data degrees	There are 4 English books, 3 social studies books, 4 mathematics books and 6 science books. use the information and draw a pie chart. Total = $(6 + 5 + 3 + 4) = 18$ books English = $\frac{4}{10}$ x 360° = 80°, SST = $\frac{3}{100}$ x 360° = 62° MTC = $\frac{5}{10}$ x 360° = 100°, Science = $\frac{6}{10}$ x 360° = 120° English Science $\frac{120°60°}{100°}$ MTC	Guided discovery Inquiry	Drawing pie-charts	Critical thinking Friendship formation	•	MK Primary book 6 page 187 – 188
8	2	Interpretation of graphs and data	Data handling	Constructing pie- charts using data in tables	The learner; Constructs pie charts	The learner' Reads and uses the key words correctly	The table shows the marks scored by Peter in 4 subjects. Represent Peter's performance on a pie – chart. Subject Eng MTC Sci SST % mark 60 90 70 80 Total = $(60 + 90 + 70 + 80) = 300$ English = $60/300$ x 360° = 72° , SST = $80/300$ x 360° = 96° MTC = $90/300$ x 360° = 108° , Science = $6/10$ x 360° = 120° English Science 72° 1080 SST	Guided discovery Discussion Whole class discussion	Constructing pie-charts	Effective communication Critical thinking	•	MK Primary MTC book 6 page 189

8	3	Measurements	Money Buying and selling (shopping bills)	The learner; Identifies the money denomination Completes bills	The learner; Reads, spells, pronounces and uses the words bills quality unit cost amount	Example Study the table below ltem Sugar Soap Oil Total expenditure Sugar $A = Q \times U = 4 \times 1,20$ Soap $U = A/Q = 1400$ Oil $Q = A/U = 4500$ Expenditure Sh. 480 0 Sh. 1400 + Sh 4500 Sh. 10700	Quantity 4kg 2bars 3 litres 00 = Sh. 4 800 2 = sh. 700	Unit cost sh.1200 sh. 700 sh. 1,500	Total cost sh.4,800 sh. 1,400 sh., 4500 sh. 10, 700	 Guided discovery Whole class discussion Inquiry 	Finding the missing	Critical thinking Problem solving	Real money	MK Primary MTC book 6 page 214 – 217
8	4	Measurements	Money Uganda currency	The learner; Identifies the number correctly Counts and includes the first note	The learner reads and uses the key words notes currency bank		es numbered fro ank notes does 9 100 notes s worth sh. 10,000	m AT00 4300 to /s he have?	,	Guided discovery Discussion Brain storming	 Finding the number of notes Finding amount 	Effective communication Problem solving	Real money	MK Primary MTC book 6 page 218-219

8	5			T	The learner'	the learner;	Study the exchange rates below							
0					Identifies the currency for each	reads, spells and pronounces the	Currency	Buying	Selling					
					country	key words Currency	1 US \$	2400	2450					
					Converts the given currency to	Rates	1 pound sterling £	3500	3550					
					another		1 Kenya shilling (Ksh)	29	30					
							1TZ (TS sh)	2	3					
							1 Rwanda Fran*RF)	3.5	4					
							Examples Convert 245,000 Ug.sh to Ug. Sh.2450 Ug. Sh.2450 = US \$1 Ug. Sh.1 = $\frac{1}{2450}$ Ug. Sh.245000 = $\frac{1}{2450}$		100					
							b) Bayiga has to send her	son's tuition to Brit	ain. She has sh. 2307,500 to					
							exchange . Find the amour	nt of pound sterling	g she will get?					
							Ug. Sh. 3359 = £.1							
							Ug. Sh. 1 = £ $\frac{1}{3550}$							111
							Ug. Sh. 2,307,500 = £ . $\frac{1}{3}$	1550 x 2307500 s	= £. 650		ırrendies	_	Real money , chalk board illustration	6 page 107 – 111
							c)Change Ksh. 4000 to Ug	Shillings		<u>></u>	jiven c	ınicatio	halk bo	
							Ksh.1 = Ug. 29			Guided discovery Brain storming	Converting the given currencies	Critical thinking Effective communication	money , ci	MK Primary MTC book
		ments		Exchange rates			Ksh 4000 = Ug.sh. (29 x 40	000)		Guid	Conv	Critic	Real	MK F
		Measurements	Money	chang						• •	•	• •	•	•
		Ž	Ĭ	ű			Ug sh. – 116,000							

8	6				The learner Identifies the different measures	The learner; Reads, spells and writes the words	Example John took 4 hrs to cover a distance at a speed of 30kmk/hr. what distance did he cover?					
		Measurements	Money	Finding distance when given sped and time	Finds distance		D = $S \times T$ D = 30km /hr x 4hrs $D = \frac{30 \text{km}}{1 \text{hrs}} \times 4 \text{ hrs}$ D = 120 Km Find the distance covered at a speed of 120km /hr in 45 minutes $D = S \times T$ $D = \frac{120}{1 \text{hr}} = \frac{45}{60} \text{ hr}$ $D = 2 \times 45$ $D = 90 \text{km}$	Brain stormingInquiryDiscussion	Finding distance	Critical thinkingEffective communication	Chalkboard illustration	MK primary MTC book 6 page 112
8	7	Measurements	Money	Calculating speed	The learner Identifies distance and time Finds speed	The learner; reads, spells and uses the key words speed distance time		Guided discovery Brain storming	Finding speed	Effective communication Problem solving	Chalk board	MK primary MTC book 6 page 113
9	1	Measurements	Money	Finding time	The learner; Identifies distance and speed Finds time correctly	The learner Reads, spells, pronounces and uses the vocabulary words time speed distance	If a bus moves at 30km/hr and covers a distance of 240km, how long does it take to cover the journey? $ \text{Time} = \frac{D}{S} = \frac{240km}{30km/hr} = \frac{240}{30} \text{hrs} - \text{Time} = 8 \text{hours} $	Brain stormingInquiryWhole class discussion	Finding time	Critical thinking Problem solving	•	MK primary MTC book 6 page 114

9	2	Measurements	Money	Changing m/sec to km/hr	The learner; Identifies distance and speed Finds time correctly	The learner Reads, spells, pronounces and uses the vocabulary words time speed distance	Example Change 5m/sec to km/hr $1000m = 1 \text{ km}$ $1m = \frac{1}{1000} \text{ km} = 5m = \frac{1}{1000} \text{ x 5km} = \frac{5}{1000} \text{ km} = 3600 \text{sec=1hr}$ Speed = $1m = \frac{D}{T} = (\frac{5}{1000} \div \frac{1}{3600}) \text{ km/hr}$ $= (\frac{5}{1000} \times \frac{3600}{1}) \text{km/hr} = 18 \text{km/hr}$	Discussion Guided discovery	Effective communicationProblem solving	Clock face	•	MK Primary MTC book 6 page 115
9	3	Measurements	Мопеу	Expressing km/hr to m/sec	The learner States number of metres in 1km Tells how many seconds are in 1 hour	The learner Reads and uses the key words	Examples Express 72km/hr as m/sec 1km = 1000m 1 hr = 3600 sec 72km/hr = 72 x 1000m = (7x x 10) m/sec 1 x 3600sec36 = 20m/sec = 20m/sec A bus covered a distance of 180km in 2 hours. Express its speed in m/sec. 1km = 1000m 1hr = 3600sec 9km/hr = 90 x 1000m 1 x 3600sec = (5 x 5) m/sec = 25m/sec S = D T S = 180 2hr = 90km/hr	Guided discoveryInquiry	•	 Creative thinking Effective communication Problem solving 	Clock face	MK primary MTC book1 6 page 116

9	4	Measurements	Money Finding average speed	The learner; Finds the average speed	The learner; Read and interprets questions (statements properly)	Example A car takes 3 hours to cover a certain journey at 60km/hr but it takes only 2 hours to return through the same distance a) Find the total time taken to cover the whole journey. Total time = 3hrs + 2hrs Total time = 5 hours b) Calculate the total distance covered 1st journey = D = S x T / D = 60km /hr x 3hr = 180km 2nd journey = D = S x T = D = 180km (same distance) c) Calculate the car's average speed Average speed = T.D.C T.T.T = 180km + 180k 3hrs + 2hrs = 368km -5hrs = 72km/hr	Discussion Guided discovery	Calculating average speed	Problem solving Critical thinking	•	MK primary MTC book 6 page 239
9	5	Measurements	Money Interpreting distance, time and speed on a travel graph	The learner Interprets travel graphs correctly	The learner; reads and uses the key words distance time speed travel	The graph shows two people travelled from town A to town B using different means 120 100 80 100 20 6am 7am 8am 9am Tim in hours a) At what time did the two people start their journey? b) At what speed was the cyclist moving? c) how long did the cyclists' average speed for the whole of his journey.	Guided discovery Brain storming	Interpreting travel graphs	Problem solving Effective communication	•	 MK book 6 page 118 – 120