

## <u>P.5 MATHEMATICAL SCHEME OF WORK FOR SECOND TERM</u> <u>E.L.O: The learner is able to solve problems solving fractions and relating them to real life situations</u>

W K	P D	T H E M	T O P I	SUBT OPIC	CONTENT	COMPETENCES	5	INDICAT ORS OF LIFE SKILLS	METHODS / TECHNIQU ES USED	ACTIVI TY	REFE REN CE	R E M
		E	С			SUBJECT COMP	LANG COMP	AND VALUES				1
1	1	Ν	F	ADDI	Example	Learner:	-reads and solves	Recognit	Exposition	Recogn	New	
		U	R	TION	1. Add: $\underline{4} + \underline{3} = \underline{4 + 3}$	-adds	problems	ion		ition	Mk	
		М	А	OF	8 8 8	fractions with	involving		Guided		PriMt	
		Е	С	FRAC		the same	addition of	Identific	discussion	Identif	cBk 5	
		R	Т	TIONS	2. $3^{2}/_{5} + 4^{1}/_{5}$	denomination	fractions with the	ation		ying	Page	
		А	Ι	WITH	$3^{2}/_{5} + 4^{1}/_{5} = 3 + 4 + (2/_{5} + 1/_{5})$	S	same				122	
		Y	0	THE	= 7 + <u>2+1</u>		denominators	Problem	question	Adding		
			Ν	SAME	5	-identifies		solving	and answer	correct	P.5	
				DENO	= 7 + <u>3</u>	whole				ly	curri	
				MINA	5	numbers from					culu	
				TORS	$= 7^{3}/_{5}$	the given					m	

			mixed fractions Adds mixed numbers with different denominators		effective commun ication			page 92
2	ADDI TION OF FRAC TIONS WITH DIFFE RENT FRAC TIONS	Example 1. add $\underline{1} + \underline{1} = \underline{3 \times 1 + 2 \times 1}$ $2  \underline{3}  6$ $= \underline{3 + 2}$ 6 $= \underline{5}$ 6 2. add $3^{1}/_{3} + 4^{1}/_{5}$ $3^{1}/_{3} + 4^{1}/_{5} = 3 + 4 + \frac{1}{3} + \frac{1}{5}$ $= 7 + \underline{5 \times 1 + 3 \times 1}$ 15 $= 7 + \underline{5 + 3}$ 15 $= 7 + \underline{8}$ 15 $= 7^{8}/_{15}$	-finds the LCM -adds fractions with different denominators	-reads and solves problems involving addition of fractions with different denominations	Recognit ion Sharing Problem solving Identific ation	Guided discussion Explanatio n Question and answer	Adding mixed fractio ns with differe nt denom inators	New Mk PriMt cBk 5 page 122
3	ADDI TION OF WHOL E NUMB ERS AND VULG	Example Add: 1. $5 + {}^{3}/_{4}$ $= 5 + {}^{3}/_{4}$ $= 5 {}^{3}/_{4}$ 2. $4 {}^{1}/_{5} + 6$ $= 4 + 6 + {}^{1}/_{5}$ $= 10 + {}^{1}/_{5}$	-identifies whole numbers from mixed numbers -adds wholes to fractions	-reads given numbers correctly	Identific ation Problem solving	Guided discussion	Adding whole numbe rs and vulgar fractio ns	New PriMt cBk 5 Page 124 P.5 curri culu

	AR		-writes mixed				m	
	FRAC		numbers				page	
	TIONS	3. $42 + 8^{1/2}$	correctly				92	
		$= 42 + 8\frac{1}{2} = 42 + 8\frac{1}{2}$						
		$= 50 + \frac{1}{2}$						
		$= 50^{1/2}$						
		4. $1^{1}/_{3} + \frac{1}{2}$						
		$= \frac{11}{3} + \frac{1}{2} = 1 + \frac{1}{3} + \frac{1}{2}$						
		= 1 + 2x1 + 3x1						
		6						
		1+ <u>2+3</u>						
		6						
		=1+ <u>5</u>						
		6						
		$=1^{5}/_{6}$						
4	WOR	Example	-solves word	-reads and	Interpret	Guided	New	
	D	A math teacher spent $1/3$ of an hour	problems	interprets given	ation	discussion	PriMt	
	PROB	giving examples, ½ of an hour giving	involving	statements			cBk 5	
	LEMS	an exercise, $1/3$ of an hour marking	addition of	correctly	Logical	Exposition	Pg	
	INVOL	the exercise. How long was his	fractions		thinking		125	
	VING	lesson?				Market stall		
	ADDI	Duration = $1 + 1 + 1$			Problem		P.5	
	TON	3 2 3			solving		curri	
	OF	= <u>1+1</u> + <u>1</u>					culu	
	FRAC	3 2					m	
	TIONS	= 2 + 1					page	
		3 2					92	
		$= 2 \times 2 + 3 \times 1$						
		6						
		$= \frac{4+3}{1} = \frac{7}{1}$						
		6 6						
		$=1^{1}/6$						
		2. John filled $\frac{1}{2}$ of the tank with						
		water in the morning and $^{2}/_{5}$ in the						

		afternoon. What fraction of the tank was filled? = $\frac{1}{2} + \frac{2}{2} = \frac{5x1 + 2x2}{10}$ = $\frac{5 + 4}{10} = \frac{9}{10}$						
5	SUBTR ACTIO NS OF FRACT FIONS WITH THE SAME DENO MINAT ORS	Example 1. Subtract: $\frac{4}{5} - \frac{1}{5}$ $\frac{4}{5} - \frac{5}{5} = \frac{4 - 1}{5}$ $\frac{3}{5}$ 2. $7^{5}/_{8} - 3^{2}/_{8} = (7 - 3) + \frac{5}{5} - \frac{2}{8}$ $4 + \frac{5 - 2}{8}$ $4 + \frac{3}{8}$ $= 4^{-3}/_{8}$	-subtracts fractions with the same denominators -identifies whole numbers from mixed numbers then subtracts correctly	-reads and interprets statements correctly	Recognit ion Problem solving Identific ation	Guided discussion Guided discovery Think pair and share	Identif ying Solving proble ms	
6	SUBT RACTI ON OF FRAC TIONS WITH DIFFE RENT DENO MINA TORS	Example 1. subtract $\frac{\frac{1}{2}-\frac{1}{3}}{\frac{1}{2}-\frac{1}{3}} = \frac{3 \times 1 - 2 \times 1}{6}$ $\frac{3-2}{6}$ $= \frac{1}{6}$	-subtract fractions with different denominators correctly	-reads and solves problems involving subtraction of fractions with different denominations	Problem solving Sharing Critical thinking	Guided discussion Guided discovery	Subtra cting fractio ns with differe nt denom inators	New PriMt cBk 5 Page 126
7	Subtra ction of	Workout: 5 $-\frac{1}{2}$ 5 $-\frac{1}{2} = (4 + 1) -\frac{1}{2}$ = 4 + 1 $-\frac{1}{2}$	-subtracts fractions from wholes	-reads and interprets	Logical thinking	Exposition	Subtra cting	New PriMt cBk 5

		whole numb ers and vulgar fractio ns	$= 4 + \frac{2}{2} - \frac{1}{2}$ = 4 + $\frac{2-1}{2}$ = 4 + $\frac{1}{2}$ = 4 + $\frac{1}{2}$		statements correctly	Problem solving	Guided discussion		page 126	
2		WOR D PROB LEMS INVOL VING SUBT RACTI ON OF FRAC TIONS	EXAMPLES: OCHILLI was given <sup>3</sup> / <sub>4</sub> of a sugar cane. He gave 1/6 of it to his friend. What fraction of sugarcane remained? $3 - 1 = 3 \times 3 = 2 \times 1$ 4 - 6 - 12 = 7 12 2. There were 5 loaves of bread in the box. A mother used 3 <sup>2</sup> / <sub>5</sub> of them. What fraction remained? $5 - 3^{2}/_{5} = 4 + 1 - 3^{2}/_{5}$ $= 4 - 3 + 1 + 1 - 2^{2}/_{5}$ $= 1 + \frac{5}{5} - \frac{2}{5}$ $= 1 + \frac{3}{5} - \frac{5}{5}$ $= 1^{3}/_{5}$	-solves word problems involving subtraction of fractions	-reads and interprets statements correctly	Interpret ation Logical thinking Problem solving	Exposition Guided discussion	Interpr eting Proble m solving	Mk PriMt cBk 5 page 127 P.5 curri culu m page 92	
	2	ADDI TION AND SUBT RACTI ONS (USE	Example $\frac{1}{2} + \frac{1}{3} - \frac{1}{4}$ $\frac{1}{2} + \frac{1}{3} - \frac{1}{4} = (\underline{1} + \underline{1}) = \underline{1}$ 2  3  4 $\underline{3 + 2} - \underline{1}$ 6  4 $\underline{5 - 1}$	-identifies the given operations -applies the knowledge of BODMAS to	-reads and solves problems involving addition and subtraction	Critical thinking Problem solving	Explanatio n Guided discovery	Identifi cation Guided discov ery	Mk PriMt cBk 5 Page 128	

	BODM AS)	$ \begin{array}{c} 6 & 4 \\ = \underline{2x5 - 3x1} \\ 12 \\ = \underline{10 - 3} \\ 12 \\ = \underline{7} \end{array} $	workout given operation -re-arranges then solves the problems					P.5 curri culu m page 92
3	MULT IPLIC ATIO N OF WHOL ES AND FRAC TIONS	12         Example         Multiply: $4 \times \frac{1}{2}$ $4 \times \frac{1}{2}$ 2x1         = 2         Work out: $2 \times \frac{1}{4}$ $2 \times \frac{1}{4}$ $= \frac{1}{2}$ Workout $4 \times \frac{1}{2}$ using repeated addition $4 \times \frac{1}{2} = \frac{1}{2} \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$ $= \left(\frac{1}{2} \frac{1}{2}\right) + \frac{1}{2} + \frac{1}{2} \frac{1}{2} \times \frac{1}{4}$ $\frac{2}{2} \times \frac{1}{4} + \frac{2}{1} \times \frac{1}{4}$ $= 2$ wholes $= \frac{2}{4}$	-multiplies wholes with / by fractions -solves problems with "of" -uses repeated addition	-reads and solves problems involving multiplications	Critical thinking Problem solving	Demonstrat ion Exposition Think pair and share	Multipl ying fractio ns by natural numbe rs	Mk PriMt cBk 5 Page 130.
4	MULT IPLIC ATIO N OF FRAC TIONS BY NATU RAL NUMB	Example 1. $2 \ge x \ 15$ 3 $2 \ge x \ 15$ 3 $2 \ge x \ 5$ =10 2. Simplify 2 <sup>1</sup> / <sub>4</sub> of 16 $2x \ \frac{1}{4} = \frac{4 \ge x \ 2 + 1}{4} = \frac{8 + 1}{4} = \frac{9}{4}$	-multiplies fractions by natural numbers -solves problems with "of"	-reads and solves problems involving multiplication of fractions by natural numbers	Critical thinking Problem solving	Demonstrat ion Exposition	Multipl ying fractio ns by natural numbe rs	Mk PriMt cBk 5 Page 130 P.5 curri culu m

	ERS AND USE OF OF	<u>9</u> of 16 <u>4</u> <u>9</u> x 16 <u>4</u> 9x4 = 36						page 92
5	MORE ABOU T MULI TIPLI CATIO N OF FRAC TIONS BY FRAC TIONS	EXAMPLE 1. $3 \times \frac{1}{4}$ $3\times \frac{1}{4} = \frac{3 \times 1}{4}$ 2. $\frac{1}{4} \times 3 = \frac{1 \times 3}{4}$ $\frac{1}{4} \times 3 = \frac{1 \times 3}{4}$ $= \frac{3}{4}$	-uses commutative property to simplify given fractions	-reads and interprets statements correctly	Associati on Creative thinking Problem solving	Explanatio n Guided discussion	Multipl ying fractio ns using commu tative proper ty	Mk PriMt cBk 5 Page 130
6	MULT IPLIC ATIO N OF FRAC TIONS BY FRAC TIONS	Example 1. $1 \times 2$ 3 5 $1 \times 2 = 1 \times 2$ 3 5 3 $\times 5$ = 2 15	-multiplies fractions correctly -reduces where possible	-reads and solves problems involving multiplication	Critical thinking Problem solving	Exposition Guided discovery	Multipl ying fractio ns Reduci ng fractio ns	Mk PriMt cBk 5 Page 131 P.5 curri culu m page 92
7	APPLI CATIO	Examples: 1. What is ¼ of an hour?	-applies fractions to	-reads and interprets	Critical thinking	Exposition	Simplif ying	Mk PriMt

		N OF FRAC TIONS	14 of 60 minutes 14 of 60 14 x 60 1 x 15 = 15 minutes What is ½ of a kg = 1000grams ½ of k = ½ of 1000 grams = 1½ x 1000 grams = 1 x 500 grams	simplify given numbers	statements correctly	Problem solving	Question and answer	numbe rs by applyin g fractio ns	cBk 5 Page 131
3	1	WOR D PROB LEMS INVOL VING MULT IPLIC ATIO N OF FRAC TIONS	<ul> <li>= 500 grams</li> <li>Examples.</li> <li>A school has 1000 pupils.</li> <li><sup>1</sup>/<sub>5</sub> of them went for a trip. How many pupils went for a trip?</li> <li><sup>1</sup>/<sub>5</sub> x 1000 pupils</li> <li>= 1 x 200</li> <li>= 200 pupils</li> <li>200 pupils went for a trip.</li> <li>2. A Mathematics lesson takes <sup>2</sup>/<sub>3</sub> of 1 hour. How long is the Mathematics paper in minutes?</li> <li><sup>2</sup>/<sub>3</sub> of an hour</li> <li><sup>2</sup>/<sub>3</sub> x 60 minutes</li> <li>= 2 x20</li> <li>=40 minutes</li> </ul>	-solves word problems involving multiplication	-reads and interprets statements correctly	Interpret ation Critical thinking Problem solving	Exposition Question and answer	Reads and interpr ets questio ns Multipl ying correct ly	Mk PriMt cBk 5 Page 132 P.5 curri culu m page 92
	2	RECIP ROCA LS OF FRAC TIONS MULT IPLIC ATIVE	When a fraction number is multiplied by its reciprocal, the result is 1 <b>Example</b> Find the reciprocal of i) $\frac{3}{4}$ let the reciprocal of $\frac{3}{4}$ be p $\frac{3}{4}$ x p = 1	-describes the term reciprocal -finds the reciprocal of given fractions	-reads and pronounces the term reciprocal correctly -spells the new term accurately	Sharing Logical thinking Problem solving	Guided discussion Question and answer Problem solving	Findin g the recipro cal	Mk PriMt cBk 5 Page 133 P.5 curri

	INVER SE	$4x^{3}/_{x} x p = 1 x4$ $3 p = 4$ $3 3$ $P = 4/3$ ii) 5/2 Let the reciprocal of 5/2 be y 5/2 x y = 1 2 x 5/2 y = 1 x 2 5 y = 2 5 5 = y = 2/5						culu m page 92	
3	DIVISI ON OF WHOL E NUMB ERS BY FRAC TIONS USING RECIP ROCA L METH OD	Example 1. $2 \div \frac{1}{2}$ $2 \div \frac{1}{2} = 2 \times \frac{2}{1}$ $= \frac{4}{1}$ = 4 2. $\frac{1}{2} \div \frac{1}{3}$ $= \frac{3 \times \frac{3}{2}}{2}$ $= \frac{9}{2}$ $= \frac{4^{1}}{2}$ 3. $8 \div \frac{1}{4}$ $8 \div \frac{4}{1}$ $\frac{8 \times 4}{1}$ $\frac{32}{2} = 32$	-divides whole numbers by fractions using the reciprocal method	-reads and interprets statements	Sharing Logical thinking Problem solving	Explanatio n Guided discussion	Dividin g whole numbe rs by fractio ns	Mk PriMt cBk 5 Pg13 4 P.5 curri culu m page 92	

		1						
4	Divisi on of fractio ns using LCM metho d	1 Example 1. divide $15 \div {}^{3}/_{4}$ $15 \div {}^{3}/_{4} = \underline{15} \div \underline{3} \times 4$ $= 4 \times 15 \div 3$ $= 60 \div 3$ = 20 2. Divide $4 \div \underline{1}$ 3	-divides whole numbers by fractions using the LCD method	-reads and solves problems involving division using the LCD method	Effective commun ication Sharing Logical thinking	Guided discovery Guided discussion	dividin g fractio ns using LCD metho d	Mk PriMt c BK 5 Page 135 P.5 curri culu
		$4 \div \underline{1} = 3x \underline{4} \div \underline{1} x3$ $3 \qquad 1 \qquad 3$ $= 12 \div 1$ $= 12$ 3. Divide 20 ÷ \underline{4} $5$ $20 ÷ \underline{4} = \underline{5} x 20 ÷ \underline{4} x 5$ $5 \qquad 1 \qquad 5$ $= 100 ÷ 4$ $= 25$						m page 92
5	WOR D PROB LEMS INVOL VING DIVISI ON OF WHOL E NUMB ERS BY FRAC TIONS	Example A shopkeeper divided 4 bars of soap into pieces and was $1/6$ of a bar. How many pieces did he make? Soln $4 \div 1/6 = 4 \ge 6/1$ $= \frac{4 \ge 6}{1} = \frac{24}{1}$ 1 = 24 pieces of soap 2. How many $1/4$ loaves of bread can be got from 2 loaves? $2 \div 1/4$ $2 \div 1/4 = 2 \ge 4$ 1 $= \frac{8}{2}$	-solves word problems involving division of whole numbers by fractions	-reads and interprets statements correctly	Interpret s question s Critical thinking Problem solving	Guided discussion Exposition	Readin g and interpr eting questio ns Answe rs correct ly.	Mk PriMt cBk 5 pg 136

				1							
				= 8 quarter loaves of bread							
	6		DIVISI	Examples:	-divides a	-reads and solves	Logical	Guided	Dividin	Mk	
			ON OF	$\frac{1}{2} \div 4$	fraction by a	problems	thinking	discussion	g a	PriMt	
			А	$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{4}{2} \times \frac{4}{2}$	whole	involving division			fractio	cBk 5	
			FRAC	1	number		Sharing	Exposition	n by a	Page	
			TION	$1 \div \underline{1} = 1 \times \underline{1}$					whole	138	
			BY A	8 8	-finds the LCD		Problem				
			WHOL	= <u>1</u>			solving			P.5	
			E	8						curri	
			NUMB							culu	
			ER	$\underline{1} \div 8 = \underline{1} \times \underline{1}$						m	
				3 3 8						page	
				= <u>1</u>						92	
				24							
				OR							
				$\frac{1}{2} \div 8 = \frac{1}{2} \div \frac{8}{2}$							
				$=3 \times \underline{1} \div \underline{8} \times 3$							
				3 3							
				$= 1 \div 24$							
				$= 1 \times 1$							
				24							
				$= \underline{1}$							
				24							
F	0.13	THF	IFARN	FR IS ARI F TO SOI VF PROBLEM	S INVOLVING	DECIMAI S RELA	TED TO E	EAL LIFE S	ΤΠΔΤΙΟ	ONS	
-	7		DECI	FXAMP	-draws a	-reads decimals	Identific	Exposition	Drawin	Mk	
	ĺ,		MAL.	LES	number line	correctly	ation	Exposition	σa	PriMt	
1			FRAC	1 Show $0.4$ $0.7$ $0.5$ on a number line	-renresents	correctly	4000	Question	numbe	cBk 5	
1			TIONS		given		Logical	and answer	r line	nage	
1			ON A		decimals on a		thinking		and	144	
1			NUMB		number line			Demonstrat	renres	1	
1				2. 4.3. 4.5. 4.8				ion	enting		

			ER LINE	4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 4.8         3.			Problem solving		decima ls on it.	P.5 curri culu m page 94
4	1	N U M E R A C Y	COMP ARIN G DECI MALS USING >, <	When comparing decimals using a numberline, a number on the left hand side is less than a number on the right hand side. Example 1. Compare 0.3 and 0.5 <ul> <li>↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</li> <li>0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7</li> <li>0.8             0.3 &lt; 0.5 or 0.5 &gt; 0.3</li> <li>2. Compare 0.6 and 0.4</li> </ul> <li><ul> <li>↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</li> <li>0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8             0.6 &gt; 0.4</li> <li>3. Compare 5.2 and 5.7</li> <li>↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</li> <li>5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9             5.2 &lt; 5.7</li> </ul></li>	-draws a numberline -represents given decimals on a number line - compares given sets of decimals	-reads decimals correctly	Responsi bility Problem solving Logical thinking	Question and answer Demonstrat ion	Compa ring a given set of decima ls using > and <	Mk PriMt cBk 5 Page 144 P.5 curri culu m page 94
	2		ORDE RING DECI MALS	Example 1. Arrange 0.2, 0.22, 1.2 in ascending order LCM= 100 $0.2 = 2 \times 100 = 2 \times 10 = 20$ 10 $0.22 = 22 \times 100 = 22 \times 1 = 22$ 100 $1.2 = 12 \times 100 = 12 \times 10 = 120$ 10	-changes each decimal to a fraction - finds the LCM - finds the value for each fraction.	-reads and arranges decimals in either ascending or descending order	Sharing Logical thinking Problem solving	Exposition Question and answer	Arrang ing decima ls in ascend ing and descen ding order	Mk PriMt cBk 5 Page 145 - 146 P.5 curri culu

		Ascending order: 1.2, 0.22, 0.2 2. Arrange 0.5, 5.55, 0.55 in descending order 0.5, 5.55, 0.55 in descending order. LCM =100 0.5 = $5 \times 100 = 5 \times 10 = 50$ 10 5.55 = $555 \times 100 = 555 \times 1 = 555$ 100 0.55 = $55 \times 100 = 55 \times 1 = 555$ 100 Descending order: 5.55, 0.55 0.5	- arranges in the required order					m page 94
3	ADDI TION OF DECI MALS	Example 1. 23. $345 + 17. 323$ 23. $345$ +17. 323 40. 668 2. $0.825 + 0.76$ 0.825 + 0.760 -1.585 3. $4.96 + 1.7$ 4.96 + 1.70 -6.66	-arranges decimals in their right place value -adds decimals correctly	reads and solves problems involving addition of decimals	Responsi bility Creative thinking Problem solving	Guided discussion Question and answer Market stall	Adding decima ls correct ly	Mk PriMt cBk 5 Pg 147 P.5 curri culu m page 94
ŀ	SUBT RACTI ON OF DECI MALS	1. Subtract: 26. 763 - 13. 221 26. 763 - 13. 221 - 13. 542 2. 97.4 - 13. 69 97.4 - 13. 69 83. 71	-arranges decimals in their right place value -subtracts decimals correctly	reads and solves problems involving subtraction of decimals	Responsi bility Logical thinking Problem solving	Exposition Brain storming Question and answer	Subtra cting decima l fractio n	Mk PriMt cBk 5 Page 147

	5			ADDI	EXAMPLE	-applies	-reads and solves	Identific	Exposition	Adding	Mk	
				TION	13.75 – 27 + 91.25 (BODMAS)	BODMAS to	problems	ation	-	and	PriMt	
				AND		add and	involving mixed		Demonstrat	subtrac	cBk 5	
				SUBT		subtract	operation on	Effective	ion	ting	nage	
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					105.00	ro arrangos		Ication	Question	15 Ucing		
				MALC	103.00	-ie-allaliges		Droblom	allu allswei			
				MALS	105.00 27.00	decimals then		Problem	Marilant	BODM		
				(MIXE	105.00 - 27.00	adds and		solving	магкет	AS		
				D	105.00	subtracts			store			
				FRAC	<u>-27.00</u>							
				TION)	<u>78. 00</u>							
					=78.00							
ΕL	0.	тн	E LE	CARNER	IS ABLE TO RECOGNISE AND CONSTR	LICT VARIOUS G	EOMETRIC FIGURE	S AND REL	ATE THEM TO	) OTHER	FIELDS	
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	0	G E		MEAS	Measure the lines below	-recognises	-redus units on	hilitar	beinonsulat	Medsul		
		E				units on the	rulers correctly	billty	1011	es the		
		0		ե	A B	ruiers		11	<b>F</b>	length	СВК 2	
		Μ		DRAW	AB = 7.2  cm	- measures		Identific	Exposition	ot	Page	
		Е		Ν		the length of		ation		drawn	152	
		Т		LINES	2. X Y	already drawn			Guided	lines		
		R			XY = 5.8cm	lines		Recognit	discussion		P.5	
		Y			<b>├</b> ────┤			ion			curri	
					3. F G						culu	
					$\overline{FG}$ = 4.5cm			Creative			m	
								thinking			page	
								8			96	
											~ ~ ~	

-	7	DRAW ING LINES OF GIVEN MEAS UREM ENTS	<ul> <li>EXAMPLE</li> <li>1. Draw a line of length 3.7cm</li> <li>3. Draw a line that measures 7.1cm</li> </ul>	-measures given length from rulers using pair of dividers/ compasses. -draws lines of given length	-reads units on rulers correctly	Recognit ion Identific ation Apprecia tion	Demonstrat	Demon stratio n Explan ation Guided discov ery	Mk PriMt cBk 5 Page 152
5	1	Lines	Lipes of lines Line segment Ray Lie Parallel lines Perpendicular lines Intersecting lines Lines of symmetry Skew lines	-describes what a line is -identifies and explains the different types of lines - draws illustrations for each type of line	-reads and pronounces the different types of lines correctly	Sharing Effective commun ication Identific ation	Demonstrat ion Illustration Exposition	g and describ ing each type of line	MK PriMt cbk 5 Page 175 P.5 curri culu m page 96
	2	DRAW ING PARA LLEL LINES	$ \begin{array}{c}                                     $	-identifies parallel lines from given sets of lines - construct parallel lines using a pair of compasses	-reads and names labeled parallel lines.	Responsi bility Sharing Effective commun ication	Demonstrat ion Illustration Exposition	Drawin g and identif ying paralle l lines	Mk PriMt cBk page 176
	3	DRAW ING PERP ENDIC ULAR LINES	$\begin{array}{c} A \\ + H \\ C \\ + D \\ + G \\ B \end{array}$	-identifies perpendicular lines -draws perpendicular lines	-recognizes perpendicular lines	Logical thinking Responsi bility	Demonstrat ion Illustration	Drawin g perpen dicular lines	Mk PriMt cBk 5 Page 180 - 181

		AB CD HE II GF			Identific			
_	DOLDI	HE_I GH / HE I EF			ation		<b>.</b> .	
4	FOLDI	Folding lines are got by folding a	-defines a line	-counts and	Observat	Demonstrat	Drawin	Mk
		given figure	of symmetry	lines of summetry	1011	ion	glines	Primt
	OF		-determines	in polygons	Creative	Illustration	symme	nage
	SYMM		lines of	in polygons	thinking	mustration	trv	185
	ETRY	Rotational lines are got by rotating	symmetry in		- 0	Gallery	- 5	
	AND	ABCDE	polygons		Responsi	walk		P.5
	ROTA				bility			curri
	TION	ГGUIK			A			culu
	AL LINES				Apprecia			m
	LINLS				tion			96
5	DRAW	Aline of symmetry divides a figure	-describes	-counts and	Observat	Demonstrat	Identifi	New
	ING	into two equal parts which must	folding lines	mentions the	ion	ion	cation	MK
	LINES	overlap completely.	of symmetry	lines of folding	· ·		and	PriMt
	OF	A square has 4 lines of symmetry	and rotational	symmetry and	Apprecia	Illustration	drawin	cBk 5
	FTRY	1	-drawing lines	Totational inles	tion		of	page 185
			of folding		Critical		folding	105
			symmetry and		thinking		symme	
			rotational		_		try and	
			lines		Sharing		rotatio	
		A rectangle has 2 lines of symmetry					nal	
		I I					lines	
		-+						
		i						
		An equilatoral triangle symmetry						
		An equilateral triangle symmetry.						

		1			r		1			
				An equilateral triangle has 3 lines of symmetry						
	6		CONS TRUC TING CIRCL ES OF GIVEN RADI US	Draw a circle whose radius is 4cm	-measures the required radius -draws a circle of a given radius	-reads the given length correctly	Identific ation Responsi bility Problem solving	Demonstrat ion Guided discovery	Measur ing and drawin g circles of given radius	New Mk PriMt cBk 5 Page 186
	7		CONS TRUC TING IN HEXA GON IN CIRCL ES	Example Draw a regular hexagon whose sides are 3cm each	-measures the length of the radius -draws circle of the measured radius -constructs a regular hexagon in a circle	-reads the given length correctly	Accuracy Responsi bility Apprecia tion	Demonstrat ion Guided discussion	Drawin g several regular hexago n	New Mk priMt cBk 5 Page 188 P.5 curri culu m page 96
6	1		CONS TRUC TING	EXAMPLE triangle 1.Draw an equilateral of length 4cm	-measures the length of the radius	-describes what equilateral triangles are.	Accuracy Sharing	Demonstrat ion	Drawin g equilat	New Mk PriMt

	EQUIL ATER AL TRIAN GLES IN CIRCL ES		-draws a circle of the given radius - constructs an equilateral triangle -measures the length of each side of a triangle		Apprecia tion Problem solving	Guided discovery	eral triangl es	cBk 5 Page 187
2	CONS TRUC TION OF ANGL ES OF 60° AND 30° USING A PAIR OF COMP ASSES	Example 1. Construct an angle of 60 <sup>0</sup>	-constructs an angle of 60 <sup>0</sup> -bisects 60 <sup>0</sup> to construct 30 <sup>0</sup> -labels the constructes angles	-spells, reads and describes the term "bisect"	Responsi bility Sharing Observat ion	Demonstrat ion Guided discovery Gallery walk	Constr ucting an angle of 60 <sup>0</sup> and 30 <sup>0</sup>	New Mk PriMt cBk 5 Page P.5 curri culu m page 96
3	CONS TRUC TION OF ANGL ES OF 90 <sup>0</sup> AND 45 <sup>0</sup>	<ol> <li>Construct an angle of 90°</li> <li>Construct an angle of 45°</li> </ol>	<ul> <li>-constructs an angle of 90°</li> <li>-bisects 90° to construct 45°</li> <li>Labels the constructed angles</li> </ul>	-reads, spells and pronounces the term "bisect" correctly	Sharing Observat ion Accuracy Problem solving	Demonstrat ion Exposition Illustration	Constr ucting angles of 90 <sup>0</sup> and 45 <sup>0</sup>	New Mk MtcB k 5 Page

4	ROTA	An angle is the amount of turning	-defines an	-reads and writes	Observat	Demonstrat	Compa	New
	AND REVO LUTIO N IN DEGR EES AND TURN S	Comparing turns with degrees $\frac{1}{4}$ turn = 90° $\frac{1}{2}$ turn = 180° $\frac{3}{4}$ turns = 270° 1 revolution = 360°	angles -relates and compares turns with angles/degree s	English sentences about the relationship between turns and degrees/ angles	Accuracy Sharing Problem solving	Inn Illustration Exposition	ring and relatin g turns with angles	MK PriMt cBk 5 Page 189 P.5 curri culu m page 96
5	USING COMP ASS DIREC TION TO FIND ANGL ES TURN ED	USING COMPASS DIRECTION -Angles of rotation. -Smaller angles and bigger angles.	-uses compass to find the angle turned -uses compass to find new direction	-reads cardinal and secondary points of a compass	Interpret ation Logical thinking Problem	Demonstrat ion Exposition	Findin g angles turned using compa ss directi on	New Mk PriMt cBk 5 Page 189 - 191 191 - 192

6	TYPES	Recognises differe	nt types of angles	-recognises	-reads and names	solving	A compass	Descri	New	
	OF	correctly	51 0	different	different types of	0	ina	bing	Mk	
	ANGL	5		types of	angles		mathematic	given	Prim	
	ES	States the type of a	ingle given	angles	0		al set	angles	ary	
		correctly Types of	angles	-states the				by type	Math	
		Angle(size)	type	type of angle					emati	
		Angle	Acute	given					cal	
		less	angle	correctly					pupil	
		than 90 <sup>0</sup>	Ū						S	
									Book	
									five	
									2008	
		Angle of	Right						editio	
		<b>90</b> <sup>0</sup>	angle						n	
			(comple						page	
			mentary						193	
			)							
		Angle >	Obtuse						P.5 .	
		900<	angle						curri	
		1800							culu	
									m	
									page	
									90	
			Ci : 1 i							
		Angle of	Straight							
		1800	line							
			angle							
			(supple							
			literitary							
		Angles	J							
		Aligie >	anglo							
		3600	aligie							
		5003								

			Centre / An revoluti angle at on 360° a point						
	7	MEAS UREIN G DRAW N ANGL ES USING A COMP ASS	MEASURING ANGLES USING A PROTRACTOR A protractor has two scales i) the outer scale ii) the inner scale is used when measuring starting from the left hand side the inner scale is used when measuring starting from the right hand side we start from 0 example measure angle XPO X P 0	-studies the scales on the protractor -measures angles using protractors	-labels angels	Observat ion Identific ation Logical thinking Problem solving Creative thinking	Exposition Demonstrat ion	Measur ing angles using a protrac tor	New PriMt cBk 5 Page 194 P.5 curri culu m page 96
7		Drawi ng given angles using a protra ctor	Drawing angles Step 1 Draw a marketing line and mark a point on it. Step II Place a protractor properly. STEP III Follow the right scale and puta point STEP IV	-draws angles using a protractor - labels drawn angles	-reads drawn angles correctly	Observat ion Logical thinking Problem solving	Demonstrat ion Exposition	Drawin g angles using protrac tor	New PriMt cBk 5 Page 197 P.5 curri culu m

		Draw a line from the point to the marked point.						page 96
2	Compl ement ary angles	Complementary angles are angles that add up to 90°. Finding complement of angles given Example Find the complement of $35^\circ$ Let the complement be y. Y + $35^\circ = 90^\circ$ Y + $35^\circ - 35^\circ = 90^\circ - 35^\circ$ Y = $55^\circ$ What is the complement of $60^\circ$ W + $60^\circ = 90^\circ$ W + $60^\circ - 60^\circ = 90^\circ - 60^\circ$ W = $30^\circ$	-describes complementa ry angles -calculates the complement of given angles	-reads and interprets statements involving complementary angles.	Responsi bility Observat ion Critical thinking Problem solving	Guided discussion Guided discovery	Findin g the comple ment of given angles	New Mk PriMt c BK 5 Page 197 P.5 curri culu m page 96
3	SUPPL EMEN TARY ANGL ES	Supplementary angles are angles that add up to $180^{\circ}$ FINDING THE SUPPLEMENT OF GIVEN ANGLES Example 1. Find the suppliment of $60^{\circ}$ Let the suppliment be z Z + $60^{\circ}$ = $180^{\circ}$ Z + $60^{\circ}$ - $60^{\circ}$ = $180^{\circ}$ - $60^{\circ}$ Z = $120^{\circ}$ What is the suppliment of $135^{\circ}$ Let the suppliment be G G+ $135^{\circ}$ = $180^{\circ}$ G + $135^{\circ}$ - $135^{\circ}$ = $180^{\circ}$ - $135^{\circ}$ G = $45^{\circ}$	-describes supplimentar y angles -finds the suppliment of given angles	-reads and solves problems involving supplementary angles	Logical thinking Calculate s the supplem ent of given angles	Guided discussion Guided discovery	Findin g the supple ment of angles	New PriMt cBk 5 page 197
4	Angle s	Solving for unknown angles Example Find the size of the angles represented by: $2y+30^{\circ} = 90^{\circ}$	-identifies the type of angle given -identifies the angle sum	-reads and solves for the unknown angles in degrees	Critical thinking Problem solving	Question and answer Guided discussion	Findin g the value of the unkno	New PriMt cBk 5 Page

			Ci 1.1					0.0.0	<b>1</b>
		$2y = 2y + 30^{\circ} - 30^{\circ} = 90^{\circ} - 30^{\circ}$	- find the				wn	200-	
		$\boxed{2y} = \frac{60^{\circ}}{2}$	value of the				angles	201	
		2 2	unknown			Think pair			
		$Y = 30^{0}$	angles in			and share			
			degrees						
		X0/ 500							
		410 590							
		$X^0 + 41^0 + 59^0 = 180^0$							
		$X^0 + 100^0 = 180^0 - 100^0$							
		$X^0 = 80^0$							
		Ň							
		300							
		р							
		$P+30^{0}+90^{0}=180^{0}$							
		$P+120^{\circ}=180^{\circ}$							
		$P+120^{0}-120^{0} = 180^{0} - 120^{0}$							
		$P = 60^{\circ}$							
		Insert in a period about triangles							
		(isosceles)							
FLOTH	FLFARN	FR IS ABLE TO INTERPRET AND	SOLVE PROBI	FMS INVOLVING	GRAPHS	I	1	1	L

5	Ι	D	TYPES	TYPES OF GRAPHS	-describes the	-reads scales on	Interpret	Exp	Describing	New
	N	Α	OF	Bar graph/ column graph	types of	the horizontal	ation	ositi	the types of	MK
	Т	Т	GRAP	Line graph	graphs	and vertical axes		on	graphs and	PriMTc
	E	Α	HS	Pictograph	-describes the		Observat		features of	Bk5
	R	Η			features		ion	Guid	bar graphs	Page
	Р	Α		BAR GRAPH'S FEATURES	of a bar graph			ed		221
	R	. N		On a bar graph, data is given in bars /	-analysis both		Analysis	disc		
	E	D		columns.	axes and finds			ussi		P.5
	Т	L		It has two axes ie x-axis(horizontal)	the interval		Problem	on		curricul
	A	I		and Y axis ( Vertical)	on both axes		solving			um
	Т	Ν						Prob		page
	Ι	G		A bar graph has a constant interval				lem		97-98
	0			on both axes				solvi		
	N							ng		
6	0	0	BAR	<b>INTERPRETING DATA ON A BAR</b>	-studies the	-reads interprets	interpret	expo	Interpretin	New Pri
	F	F	GRAP	<u>GRAPH</u>	graph and	and answer	ation	sitio	g and	Mk
			Н	EXAMPLE:	interprets it.	questions about		n	answering	PriBk 5
	G	G		Study the bar graph and answer	-finds the	the graph	logical		questions	Page
	R	. R		<u>questions</u>	interval on both		thinking	ques		222 –
	A	A			axes			tion		223
	Р	Р					problem	and		
	H	H			-answers		solving	ans		P.5
	S	S		120	questions			wer		curricul
	A	A			about it					um
	N	N		80	correctly					page
										97-98
				40						
	A T									
	Δ	Δ		Mon Tue Wed Thur Fri X						
	п	п		axis Days of the week						
				1 What was the attendance on						
				Tuesday?						
				2 How mony numils attanded						
				2. now many pupils allended						
				on Tuesday and Thursday?						

	7	Repre sentin g data on a bar graph	<ul> <li>The table below shows the average rainfall at Rocky Hill Academy. Questions</li> <li>1. Represent the above information on a bar graph.</li> <li>2. Answer all questions above the bar graph</li> </ul>	-reads and interpretes given information -determines the scale - representes it on a bar graph	-reads and solves problems about the bar graph	Interpret ation Critical thinking Analysis Accuracy Problem solving	Exp ositi on Ques tion and ans wer Illus trati on	Interpretin g informatio n n on a bar graph	New Mk PriMcB k 5 Page 225 P.5 curricul um page 97-98	
8	1	Line graph	Example 1. The grah below represents to the age of 5 pupils in a P.5 class. 12 10 8 6 4 2 0 Hakim Cate Sam Peter Aisha Names of pupils a) How old is the youngest child? b) Find the sum age of Cate, Peter and Aisha	-interprets data on a line graph -answers questions about a line graph correctly	-reads and solves problems about a line graph	Interpret ation Logical thinking Problem solving	Guid ed disc ussi on Ques tion and ans wer Exp ositi on	Interpretin g data on a line graph	New Mk PriMtcB k 5 Page 229 P.5 curricul um page 97-98	

					c) Calcu children	late the	total ag	e of all							
	2		I ( I	PICTO GRAP HS	Example The pictograph below shows green papers imported from S. Africa . <u>study it and answer questions.</u>			-interprets the scale -finds the number of apples imported each day.	-reads and describes the scale	Interpret ation Critical thinking Problem solving	Exp ositi on Illus trati on	Interpretin g the scale and answering questions	New Mk PriMtcB k 5 Page 217 P.5 curricul um		
					Mon Tue Wed Thur Fri a) What b) Find papers i	esents 5 is the s the Tota mporte	0 green cale of t al numb d that w	papers his graph er of greek	n? en	-answers questions correctly			Ques tion and ans wer		page 97-98
	3		[] £	Table graph s	Example         The table below shows Joy's         performance in a test         Subje       ENG         MTC       SCI         SCOR       80%         90%       85%         75       %         1. Calculate the range in marks         2. How Many more Maths than in English?			-answers questions about the table graph	-reads and interprets information on a table graph	Interpret ation Creative thinking	Exp ositi on Guid	Interpretin g Data on a table graph	Mk PriMtcB k 5 Page 218		
								-		Problem solving	ed disc over y		P.5 curricul um page 98		
E.I	0	THE	E LEA	NER IS	ABLE TO	) APPR	ECIATE	AND AP	PLY T	HE KNOWLEDG	E OF TIME IN REAL	LIFE SITUA	TIONS		1
	4		T I I I M I E I	TELLI NG TIME IN HOUR	EXAMP Tell the below. the time (11 12	EXAMPLE Tell the time on the clock faces below. the time is 8 o'clock (8:00)			-describes when past is used. -tells time using past	-tells time verbally.	Demonst ration Expositi on	Dem onst ratio n	telling time in hours and using minutes past	new mkprim tcbk 5 page 250	
				• • ·			For mo	ore scheme	es of wo	ork, visit www.ugan	da.madpath.com		1		

	SAND	10 2	Fynresses			Fyn			ī –
	MINII		time in digital		Brain	ositi		DE	l
	TEC		form		storming	0510		1.5	l
	I ES DACT		101111		storning	011		curricur	l
	PASI					л ·		um	l
		The time is 10 minutes past 6 o.clock				Brai		page 98	l
		(6:10)				n			l
						stor			l
						min			l
		9 3				g			l
		8 ★ 4				Dem			l
		2 6 5				onst			l
						ratio			l
						n			
5		TELLING TIME USING MINUTES	-describes	-tells time	Responsi	Dem	Telling	PriMtcB	l
		<u>"TO"</u>	when to use it	verbally	bility	onst	time using	k 5 Page	l
		EXAMPLE	-tells time			ratio	minutes to	251	l
		$1.(11 \ 12_1)$	using to		Logical	n			l
		10 2	Writes time in		thinking			P.5	l
		9/3	digital form		_	Exp		curricul	l
		8 4	_		Problem	ositi		um	l
		7 6 5			solving	on		page 98	l
		The time is 20 minutes to 1 0'clock			0			1 0	l
		(12:40)				Brai			l
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						stor			l
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		2(11, 12)				σ			l
		$10^{1}$				ь			l
									l
									l
		The time is 10 minutes							l
		to 12 o'clock $(11, 50)$							l
		10 12 0 CIOCK (11:50)							l
									l

	6	Findin g	Example The bus started its journey to Mbale	-finds duratiom	-reads and interprets the	Interpret	Disc ussi	Finding duration	New MK
		durati	at 10:00am and reached its		statements	ation	on		PriMtc
		on	destination at 11:30am. How long			Logical	Dem		BK 5 Page
			and the journey takes			thinking	onst		252
			11:30a.m			- 0	ratio		_
			- <u>10:00am</u>			Problem	n		P.5
			<u>1:30 min</u>			solving	_		curricul
			1 hr 30 min				Exp		um
							ositi		page 99
							011		
	7	CANGI	Examples:	-identifies the	Converts hours	Logical	Exp	Changing	New Mk
		NG	1. Change 4 hours to minutes.	relationship	into minutes	thinking	ositi	hours to	PriMtcB
		HOUR	1 hr = 60min	between	Changes mixed	Charring	on	minutes	k 4 Page
		MINII	= 240 min	minutes	fractions to	Sharing	Disc		105
		TES	2. Change $3^{1}/_{3}$	- changes	improper fraction	Accuracy	ussi		P.5
			$3^{1}/_{3} = 3 \times 3 = 9 + 1 = 10$	hours to	1 1	5	on		curricul
			3 3	minutes		Problem			um
			1  hr = 60  min			solving			page 99
			$\frac{10}{2}$ hrs = $\frac{10}{2}$ x 60 min						
			2 3 10 x 20						
			= 200  min						
9	1	Chang	1. Change 480 minutes to hours	-identifies the	-reads and solves	Critical	Disc	Changing	New Mk
		ing	60min = 1 hour	relationship	problems	thinking	ussi	minutes to	PriBk 4
		minut	$480 \min = 480$	between	involving		on	hrs	Page
		es to	60	hours and	conversion of	Sharing	г		163
		nours	= 8  nrs	minutes	minutes to nours	Accuracy	Exp		DE
			1  hr = 60  min	minutes to		Accuracy	on		curricul
			1  min = 1  hr	hours		Problem	511		um
			60			solving			page 99

		300min = <u>1</u> x 300hrs 60 1 x5 = 5 hrs			Decision making	Guid ed disc over y		
2	ADDI TION OF TIME IN HOUR S AND MINU TES	EXAMPLE Add Hrs Min 5 35 4 20 9hrs 55 min 2. Add Hrs min 3 55 + 6 40 10 hrs 35min	-adds hours and minutes -divided minutes by an hour	-reads time correctly	Creative thinking Problem solving	Disc ussi on Guid ed disc over y	Adding hours and minutes	New Mk PriMtcB k 4 page 165 P.5 curricul um page 99
3	SUBT RACTI ON OF TIME IN HOUR S AND MINU TES	EXAMPLE S 1. Subtract hrs min 7 53 <u>-4 2</u> <u>3 hrs 32 min</u> 2. Subtract Hrs min 53 40 <u>12 13</u> <u>41 hrs 27 min</u> Hrs Min	-subtracts correctly -regroup and subtracts correctly	-reads given statements correctly	Recognit ion Logical thinking Problem solving	Guid ed solvi ng Ques tion and ans wer	Subtracting Hrs and minutes by regrouping	New Mk PriBk 5 pg 166 P.5 curricul um page 99

			00 52				Erm			-
							Exp			
			$\frac{-26}{541}$				OSITI			
	_		<u>54 hrs 26 min</u>	-			on			
4	r		<u>Examples</u>	-subtracts	-reads and	Recognit	Guid	Regrouping	New Mk	
a	L		Workout	hours and	interprets	ion	ed	and	PriMtcB	
r	1		Hrs min	minutes	statementscorrec		disc	subtracting	k 5 Page	
Ċ	l		8 25 25 85	-re-groups	tly	Logical	ussi	time in	166	
			<u>-3 40 + 6040</u>	and subtracts		thinking	on	hours and		
5	5		<u>4 hrs 40 min 8545</u>	time correctly		_		minutes	P.5	
				5		Accuracy	Exp		curricul	
						, , , , , , , , , , , , , , , , , , ,	ositi		um	
						Problem	on		nage 99	
			Subtract Hrs Min			solving			P-0	
			23 18			sorring	Oues			
			- 11 35				tion			
			$\frac{11}{11} \frac{33}{11}$				and			
			11 11/3 +3 11111				and			
							alls			
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							pair			
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							shar			
							е			
6	,	More	<u>Example</u>	-reads and	-reads and	Interpret	Guid	Interpretin	New Mk	
		subtra	1. Bamwine took 3 hrs 25 min to	interprets	interprets	ation	ed	g Question	PriMTc	
		ction	move from home to town. If	question	questions		disc	and	BK 5	
		of	he walked for 1 hr 35 min and			Logical	ussi	answering	Page	
		time	took a taxi for the rest of the	-answers		thinking	on	correctly	169	
			journey, how much time did	correctly						
			he spend in the taxi?	-		Problem	Exp		P.5	
			-			solving	ositi		curricul	
			Total time 3 hrs 25min			Ŭ	on		um	
			Time walked 1 hr 35 min				-		page 99	
			Time spent in taxi						1-0-17	

_	<b></b> _	1							<u> </u>		
					Hr min 3 25 - <u>1 35 1 hr 50 min</u>				Ques tion and ans wer		
	7		M E A S U R I N G D I S T A N C	DISTA NCE	EXAMPLE Find the distance a driver covers in 2hrs and a speed of 90km Distance = speed x time = 90 km/hr x 2hrs = 180km A bus moved from Kampala to Arua at a speed of 120km per hour for 5 hours. What distance did it cover? Distance = Speed x Time = 120 km/hr x 5 hrs =600 km	-identifies the given data -calculates the distance covered -identifies correct distance	-reads and solves problems involving speed and time Answers correctly	Problem solving Accuracy	Guid ed disc over y Illus trati on	Calculating distance covered	New Mk PriMtcB k 5 Page 254 - 255
1 0	1		E T I M E E E D		Example 1. A school truck travelled for 2½hours at an average speed of 60km per hour. What distance did it cover? D = S X T D = 60 X 5 2 D = 30 X 5 D = 150 KM 1. a car travelled for 4½ hours at an average speed of 84km every hour. How long was the journey	-identifies the given data - calculates the time taken - identifies correct units for time	-reads and solves problems involving distance and speed Answers correctly	Interpret ation logical thinking problem solving	Guid ed disc ussi on Ques tion and ans wer	Interpretin g questions and answering correctly	New Mk PriMtcB k 5 Page 255 P.5 curricul um page 99

		D = S X T $D = 84 X 9$ $2$ $D = 42 X9$ $D = 378  km$						
2 A g n Ti d fr 3 d ce sp	indin $\underline{E}$ ime transmission d istan T e and = peed 6 = =	Example Calculate the time taken by a car ravelling at 60 k.p.h to cover a distance of 480km Fime = distance ÷ speed = 480km x hrs 50km = <u>480</u> km x hrs 60 =8 x hrs = 8 hrs 2. A taxi travelled at a speed of 70 km every hour to cover a distance of 245 km. How long did it take? Time = distance ÷ speed = 245 km ÷ 70km/hr = 245 x hr	-calculates the speed -identifies correct units for speed.	-reads and interprets questions	Logical thinking Interpret ation Question and answer Decision making	Guid ed disc over y Guid ed disc ussi on	Interpretin g and answering questions	New Mk PriMtc BK 5 Page 256 P.5 curricul um page 99

		70 = <u>Z</u> hrs or 3½ 2					
4	FINDI NG SPEE D FROM DISTA NCE AND TIME	EXAMPLE What was the average speed of a cyclist who travelled and completed a distance of 250 km in 3 hours Speed= distance ÷ time = 150 km ÷ 3 hrs 150 3 = 50km/hr	Reads and interprets the question. Finds the speed from distance and time	Logical thinking Decision making Problem solving	Exp ositi on Ques tion and ans wer	Finding speed from distance and time	New Mk PriMtcB k 5 page 257 P.5 curricul um page 99

5	Speed	Example	Interprets	Interpret	Guid	Finding	New Mk	
a	-1	A taxi driver covered a journey of	questions	ation	ed	speed	Pri Mtc	
n		320km in 30 min. At what speed was	1		disc	1	Bk 5	
d		he driving?	Answers given		ussi		Page	
6		Speed = Distance ÷ Time	questions	Logical	on		258	
		But time = $30 \text{ min} = \frac{1}{2}$	correctly	thinking				
		$S = 320 \text{km} \div \frac{1}{2} \text{hr}$		_	Exp		P.5	
		$S = 320 \times 2$		Problem	ositi		curricul	
		1 1 hr		solving	on		um	
		S = 640 km/hr					page 99	
				Decision				
		A cyclist covered a distance of 60km		making				
		in 2½hrs. At what speed was he						
		cycling?						
		Speed = distance						
		Time						
		Time = 2½ hrs = <u>5</u> hrs						
		2						
		$S = 60 \div 5$						
		2						
		$S = 60 \times 2$						
		5						
		$S = 12 x^2$						
		S= 24 km/hr						