THE REAL PRIVATE TEACHER GUIDES MTC NEXT TO PLE -7 2022

23.

[THE REAL I	PRIVATE TEACHER G
1. <u>142</u>	_C = 88cm.
<u>3</u> 426	16. 1 – 4 = (finite 5) 5 + 1 – 4 = (finite 5)
1X3= 3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6 – 4 = 2 (finite 5)
$\frac{4X3=1}{0}$	$\frac{1-4=2 \text{ (finite 5)}}{17. \text{ New x number}}$
2X3= 0 6 0 0	Old <u>5</u> x 600 ²⁰⁰ kg
2. 7m – 3n – 3m – 2n	8 ₁
7m – 3m – 2n – 3n 4m – 5n	5 x 200kg 1000kg
3. 478. 96 + 1.0	18. 4 women take 10 days 1 woman takes 4 x 10day
4 7 9	1 woman takes 40days
4. $XC = 90$ V = +4	8 women take 40 ÷ 8days 8 women take 5days.
XCIV = 94	$ \begin{array}{rcl} 19. \text{ k} + 90^{\circ} + 55^{\circ} &= 180^{\circ} \\ \text{ k} + 145^{\circ} &= 180^{\circ} \end{array} $
5. F = {w, a, t, e, r } n(w) = 5	$k + 145^{\circ} - 145^{\circ} = 180^{\circ} - 145^{\circ}$
6. 1342 = One thousand forty 7. 81, 27, 9, 3, <u>1</u>	$\frac{k}{20. \text{ SI} = P \times R \times T}$
81 ÷ 3 = 27	$= Shs400,000 \times 20 \times 3$
27 ÷ 3 = 9 9 ÷ 3 = 3	1 00 = Shs4,000 x 20 x 3
$3 \div 3 = 1$ 8. 75km ÷ $1^{1/2}$ hrs	= Shs240,000 21.a)
75km ÷ ^{3/} 2hrs	M
75km x ^{2/} 3hrs <u>150km</u>	(x+5 (2x+5) x+2)
3hrs 50km/hr	b). Value of x
9. 111 _{two}	X + 5 + x - 3 = 18
<u>+ 11_{two} 1010_{two}</u>	X + x + 5 - 3 = 18 2x + 2 = 18
10. <u>3k + 13 + 5k + 7</u>	$\begin{vmatrix} 2x + 2 - 2 &= 18 - 2 \\ 2x &= 18 - 2 \end{vmatrix}$
3k + 5k + 13 + 7 4	$\frac{2x}{2} = \frac{16}{2}$
4 <u>8k + 20</u>	x = 8
4 <u>8k</u> + <u>20</u>	c). $n(M) = x + 5 + 2x + 5$ = 8 + 5 + 2 x 8 + 5
4 4	= 13 + 16 + 5
2k + 5 11. <u>1</u> + <u>1</u> = <u>2 - 1</u>	= 34 22(a). <u>2.4 x 0.9</u>
2 4 4 = 1/4	0.12 <u>24</u> x <u>9</u> ÷ <u>12</u>
12. 10 : 00am	100 10 100
<u>- 7 : 30am</u> 2 : 30	24 ² x <u>9</u> x <u>100</u> 100 10 12 ₁
13. Shs32,000 _+ Shs8,000	2 x 9 x 1 1 x 10 x 1
<u>Shs40,000</u>	18 10 = 1.8
14. 15 rep. 1 box 60 rep. (60 ÷ 15)box	b). <u>3</u> – <u>3</u> x <u>1</u>
60 rep. 4boxes	4 4 2 3-3
15. $C = 2\pi r$	4 8
$C = 2 \times 22 \times \frac{14^2}{7} \text{cm}$	<u>6-3</u> = <u>3</u> 8 8
$C = 2 \times 22 \times 2cm$	

Total	<u> </u>	311312,000 per kg	Shs49,000
Meat	3ka	Shs12,000 per kg	Shs36,000
Sugar	11/ _{2kg}	Shs4,000 per kg	Shs6,000
Rice	2kg	Shs35,000 per kg	Shs7,000
Item	QTY	UNIT COST	AMOUNT

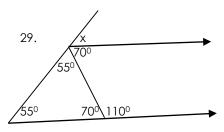
	Meat 3kg	Shs12,000 p	oer kg		Sh	<u> 1836,000</u>	
Total				Sh	s49,000		
\vdash	Rice , Suga		2/ ~1	10++	ha 1	nd nu mak	
	Rice Sugo ns3,500x2 Shs6,00		26.U)			nd numk 48 x 4	Jei
	ns7,000 Shs4,0					48 ³ x 4	
_	leat	50		16		16	
	ns36000 ³					3 x 4	
	ns 1 2000				=		
	kg		b). 2			(2 x 3	
	otal expenditure	UKI	1 2	43	4 x 6		
	ns36,000		$\frac{1}{2}$	23	24		
	Shs7,000		3	23 13	24 +	2	
	Shs6,000		-	_	26		
	ns49,000	A.	27.a)	. 1st D	rive		
2	4a). Food = $1/3$		D	$= S \times T$	Γ		
9	Rent = $1/4$		1	= 60kr	n/hr	x 21/2hrs	S
	otal fraction		:	= <u>60</u> 30	<u>km</u> x	<u>5hrs</u>	
F	ood + rent			hr		2	
1	1 + 1					i = 150ki	<u>m</u>
0	3 4			turn t	ime		
-	$\frac{4+3}{12} = \frac{7}{12}$		T = D				
L	12 12		T = 15		.00		
Fr	action left = <u>12</u> - 12	· <u>7</u>		5 km /h	nr 🎤		
		12	T = 2h		- 1		
-	= 5/ ₁₂		Av. S	peed		0km + 1	
). Amount spent	on food				21/ ₂ hrs +	
	x Shs 72000 6000		1			10km ÷ 4 10km ÷ 9	
	≠ ′ x Shs6000					10km + 2 10km x 2	
	ns 18,000					00km 10km	91 11
). Amount spent	on rent	1000			9hrs	
	x Shs 72000 ¹⁸⁰⁰⁰	SITICINI .				5 ^{2/} 3km/h	r
1	- AUT AU		28 16	et Dor		are be	
	x Shs18,000 = Sh	s18.000 \Box					
	5.a). Sum of item		Doris	Paul	ine	Robso	n
1	4 x 6 = 24		У	2y		Зу	
(k	(+1)+2k+(3k+5)+(k-3) = 24	$y + 2^{-1}$	y + 3y	r = Sr	ns360,00	0
k.	+1+2k+ 3k + 5 + k	-3 = 24		6у	= Sh	s360,00	0
k-	+2k+3k+k+1+5-3	= 24		<u>6y</u>	= <u>Sh</u>	s360,00	0
	7k+6-3	= 24		6		6	
	7k + 3	= 24	1			s60,000	
8	7k + 3 - 3					ns60,000	
	7k	= 21	Pauli	ne go			
	<u>7k</u>	= <u>21</u>				x Shs60,	
	7	7	l			is120,00	0
<u>.</u>	<u>k</u>	= 3	Robs	on go			^^^
þ). (k + 1), 2k, (3k -					x Shs60,	
	$3 + 1 2 \times 3 (3 \times 4)$		l		= 5r	<u>s 180,00</u>	UU
	4, 6, (9 + 5)	_					
_	4, 6, 14,	0					

Range = H - L= 14 - 0

26.a). Let the 2^{nd} number be n $16 \times n = 48 \times 4$ $\frac{16n}{16} = \frac{348^3 \times 4}{16}$ $n = 3 \times 4$ $n = 12$ b). $28 \cdot 6 \cdot 2 \times 2 \times 2 \times 3$ $\frac{24 \cdot 3}{2} \cdot 3 \cdot 24$ $\frac{31 \cdot 3}{3} \cdot 24 + 2$ $111 \cdot 26$
27.a). 1st Drive
$D = S \times T$
$= 60 \text{km/hr} \times 2^{1/2} \text{hrs}$
$= \frac{60^{30} \text{km} \times 5 \text{hrs}}{10^{30} \text{km} \times 5 \text{hrs}}$
hr 2
$= 30 \text{km} \times 5 = 150 \text{km}$
b). return time
$T = D \div S$
T = <u>150km</u>
75 km /hr
T = 2hrs
Av. Speed = <u>150km + 150km</u>
2 ¹ / ₂ hrs + 2hrs
$= 300 \text{km} \div 4^{1/2} \text{hrs}$
$= 300 \text{km} \div \frac{9}{2} \text{hrs}$
$= 300 \text{km x}^{2/9} \text{hrs}$
= <u>600km</u>
9hrs
$= 66^{2/3}$ km/hr
28. Let Doris' share be y
20. Let Dolls strute de y

	000,000
	y + 2y + 3y = Shs360,000
	6y = Shs360,000
	6y = Shs360,000
	6 6
I	y = Shs60,000
	Doris got y = Shs60,000
	Pauline got 2 x y
	$= 2 \times Shs60,000$
	= Shs120,000
	Robson got 3 x k
I	$= 3 \times Shs60,000$
ı	= Shs180 0000

Total



$\quad \text{Value of } x$

$x + 70^{\circ} + 55^{\circ}$	$= 180^{\circ}$
$x + 125^{\circ}$	$= 180^{\circ}$
$x + 125^{\circ} - 125^{\circ}$	$= 180^{\circ} - 125^{\circ}$
Χ	= 55 ⁰

30. Let the son's age be y.

Time	Son	Obadia	Total
Now	Χ	x + 20	
10years	x + 10	x + 20 +10	70

$$x + 10 + x + 20 + 10 = 70$$

$$x + x + 10 + 20 + 10 = 70$$

$$2x + 40 = 70$$

$$2x + 40 - 40 = 70 - 40$$

$$\frac{2x}{2} = \frac{30}{2}$$

$$x = 15$$

The son is $\mathbf{x} = 15$ years

Obadia is $\mathbf{x} + 20$

$$15 + 20 = 35$$
years

31. Area of a rectangle

$$A = L \times W$$

 $= 20 \text{cm} \times 14 \text{cm}$

 $= 280 cm^2$

Area of two semi – circles

 $A = 1/2 \pi r^2$

= <u>1</u> x <u>22¹¹</u> x 7cm x 7cm

2 7

 $= 1 \times 11 \times 7 \text{cm} \times 1 \text{cm}$

 $= 77 cm^2$

Area of the shaded part

 $280cm^2$

- 77cm²

103cm²

