## THE REAL PRIVATE TEACHER GUIDES MTC NEXT TO PLE -5 2022

He will be facing South-

East direction.

1.6+4x6
6 + 24
30
$2. (G)^1 = \{3, 5, 7, 9\}$
$n(G)^1 = 4$
3. Tues – 50 = finite 7
2 - 50 =finite 7
$2 - (50 \div 7) =$ finite 7
2 – (7 r 1) = finite 7
2 - 1 = 1 finite 7
1 stands for Monday. It wa
Monday.
4. 16 x k = 48 x 4
$\frac{16k}{16k} = \frac{48^3 \times 4}{16k}$
<del>16</del> <del>16</del> 1
$K = 3 \times 4$
K = 12
$\overline{5. \frac{1}{4} : \frac{1}{3}} = \frac{1}{4} \div \frac{1}{3}$
$= \frac{1}{4} \times \frac{3}{1}$
$= 3/_{4} \times \frac{100}{25\%}$
$= 3 \times 25\%$
= 75%
6. Total Surface Area
6 x S x S
6 x 3cm x 3cm
$6 \times 9 \text{cm}^2 = 54 \text{cm}^2$
7. 1, 3, 6, <u>15</u> , <u>21</u>
1 + 2 = 3
1 + 2 = 3
3 + 3 = 6
3 + 3 = 6 6 + 4 = 10 sum
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 <u>+2 1</u>
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 $+2$ 1 21+7 = 28 3 6
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 $+2$ 1 21+7 = 28 $3$ 6 $8. 4^{1} : 30pm 30+45=75$
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 $+2$ 1 21+7 = 28 3 6
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3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 +2 1 21+7 = 28 3 6 8. 4 <sup>1</sup> : 30pm 30+45=75 + 2 : 45hrs 75÷60=1rem15 7 : 15pm
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3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 +2 1 21+7 = 28 3 6 8. 4 <sup>1</sup> : 30pm 30+45=75 + 2:45hrs 75÷60=1rem15 7:15pm 9. Value of 2
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3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 +2 1 21+7 = 28 3 6 8. 41 : 30pm 30+45=75 + 2 : 45hrs 75÷60=1rem15 7 : 15pm 9. Value of 2 4213 <sub>five</sub> 2 x 5 x 5 2 x 25 = 50
3 + 3 = 6 6 + 4 = 10 sum 10+5 = 15 1 5 15+6 = 21 +2 1 21+7 = 28 3 6 8. 4 <sup>1</sup> : 30pm 30+45=75 + 2 : 45hrs 75÷60=1rem15 7 : 15pm 9. Value of 2 4213 <sub>five</sub> 2 x 5 x 5 2 x 25 = 50 10. 2. 75 x 10 <sup>-3</sup>
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$3 + 3 = 6$ $6 + 4 = 10$ sum $10+5 = 15$ 1 5 $15+6 = 21$ $+2$ 1 $21+7 = 28$ 3 6 $8. 4^1 : 30pm$ $30+45=75$ $+$ 2 : $45hrs$ $75 \div 60 = 1 rem 15$ $7 : 15pm$ $9. Value of 2$ $4213_{five}$ $2 \times 5 \times 5$ $2 \times 25 = 50$ $10. 2. 75 \times 10^{-3}$ $275 \times 100000 = 0.00275$ $11. Fraction not made from Japan 8/8 - 3/8 = 5/8 8 parts = 144 cars 1 part = 144 \div 8$

```
5 parts = 90 cars
90 cars were not made in
Japan.
12. 4.5 + 5.5 4.5
        2
              +5.5
              10.0
10
 2 = 5
13. (2n-4)-(2-n)
    2n - 4 - 2 + n
    2n + n - 4 - 2
    3n - 6
14. 12 days need 4men
    1 day needs 12 x 4men
    1 day needs 28men
    2 days need (48÷2)men
    2 days need 24men
15. -10°C + 5°C
   -5°C
16. Perimeter
= Circumfrence + diameter
= \frac{1}{2}\pi D + D
= 1 \times 22^{11} \times 35^{5cm} + 35cm
  \frac{2}{7}
= 1 \times 11 \times 5 \text{cm} + 35 \text{cm}
= 55cm + 35cm
= 90cm
17. Job : Bob
      2:3
    Total ratio
      2 + 3 = 5
3 parts = Shs15,000
1 \text{ part} = \text{Shs}15,000 \div 3
1 part = Shs5,000
5 \text{ parts} = \text{Shs5,000 x 5}
5 parts = Shs25,000
They shared Shs25,000
18. Let the buying price be y
100% - 20% = 80%
            = Shs1,200,000
 80 x y
100
\frac{10}{10} \times 8y = \frac{\text{Shs12,000,000}}{10}
     1,500,000
    8y = Shs + 12,000,000
     y = 1,500,000
\overline{19.} (3.6 x 48) + (3.6 x 52)
    3.6(48+52)
    36 x 10<del>0</del>
    36 \times 10 = 360
20...
```

East allectic	<u>)   </u> .	
21.a).		
n(£)=36	n(D)=2	1
n(M)=		. 1
/ ( k ( 1	1 ) 10	1-1
		2
	F1 -	
b). The value	e of k	
k + 11+1		6
k + 23	= 3	
k + 23 – 2		6 – 23
k	//=/	3
22a). 3.6 - 2	.52	3. 60
$0.4 \times 0$	018 - 2	52
1.08		
		l. 08
$0.4 \times 0.$		
<u> 108</u> ÷	4 x 1	8
100	10 10	000
	10 x 10	
100 ×		<del>00</del> <del>18</del> 1 /
		<del>  0</del> 1
<u>6 x 10</u>	0 x 10	
1 x 4	x 1	
ON 80 6 x 1	0025	
4	70	
TOTAL A SIA		,
	25 = 150	
b). Let k be	the fric	tion
k = 0.1	666	\
$10 \times k = 0.1$		
10k = 1.6		
10x10k = 1.6		
100k = 16.	.666	(ii)
Subtract (ii)	— (i)	
100k = 16.		<b>A</b> /
<u>- 10 = 1</u>		
90k = 15.	.000	-
90k = 15		
90 90		
k = 1/6		
	tor's ac	no bo k
23Let the sis	iei s ag	je be k
Time	Sister's	Barbara's
4	k	⊠k
Now	k	
6	k + 6	<sup>∞</sup> k + 6
years		
time		
K + 6 = 2	1 M L + 4	1
K 1 0 - Z	( U N T O	1
$K + 6 = 2 k_3$		
3xk+3x6 =	2k x 3/-	12 x 3
	3	
3k + 18 – 1	18 = 2k	+ 36 – 18

3k

3k - 2k

= 2k + 18

= 18

Sister's age = 18yrsBarbara's age = 1x

= 2k - 2k + 18

3

= 1 x <del>18</del> 6
$\frac{1}{3}$ = 6yrs.
24.(i) Value of m
$m + 44^{\circ} + 56^{\circ} = 180^{\circ}$
$m + 100^{\circ} = 180^{\circ}$
$m + 100^{\circ} - 100^{\circ} = 180^{\circ} - 100^{\circ}$
000
(ii) Value of n
$n = 44^{\circ}$ (vertically
<u>opposite <s< u=""></s<></u>
(ii). Value of W
W = n(Alt.int <s are="" equal)<="" th=""></s>
Since n = 44°
Then $\mathbf{w} = 44^{\circ}$
25. (a)
Ugsh4,500 = 1Euro(£)
Ugsh639,000 = <u>639000</u> Euros 45 <del>00</del>
= <del>6390</del> 142
45 <sub>1</sub> = 142 Euros
b).
1US(\$) = Ugsh3,700
520US(\$) = Ugsh3,700x520
520US(\$) = Ugsh1,924,000
Ugsh25 = 1Ksh
Ugsh1,924,000 = $\frac{\text{Ksh1},924,000}{\text{Ksh1},924,000}$
<del>25</del> 1
<u>Ugsh1,924,000 = Ksh76,960</u>
5 35 45
3   7   9
2 7 2
3 7 3
3 7 3 7 7 1
7 7 1
$ \begin{array}{c cccc} 3 & 7 & 3 \\ \hline 7 & 7 & 1 \\ \hline 1 & 1 \end{array} $ LCM = 5 x 3 x 3 x 7 = 315
7 7 1
$ \begin{array}{c cccc} \hline 7 & 7 & 1 \\ \hline 1 & 1 & 1 \end{array} $ LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded
$ \begin{array}{c cccc} \hline 7 & 7 & 1 \\ \hline 1 & 1 \end{array} $ LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded  after 315 minutes.
7 7 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b).
$ \begin{array}{c cccc} \hline 7 & 7 & 1 \\ \hline 1 & 1 & 1 \end{array} $ LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded  after 315 minutes.  b).  Hr Min 1hr=60min
7 7 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315
7 7 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60
7 7 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60 16 : 45hrs 5hrs 15min
7 7 1 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60 16 : 45hrs 5hrs 15min 27a). Sugar 1kg = 1000g
7 7 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60 16 : 45hrs 5hrs 15min 27a). Sugar 1kg = 1000g 4kg = 4 x 1000g = 4,000g
7 7 1 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60 16 : 45hrs 5hrs 15min 27a). Sugar 1kg = 1000g 4kg = 4 x 1000g = 4,000g 4,000a
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes.  b).  Hr Min 1hr=60min  11 30 315  + 5 15 60  16 : 45hrs 5hrs 15min  27a).  Sugar  1kg = 1000g 4kg = 4 x 1000g = 4,000g 4,000g 500g = 8 groups of 500g
7 7 1 1 1 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60 16 : 45hrs 5hrs 15min 27a). Sugar 1kg = 1000g 4kg = 4 x 1000g = 4,000g 4,000g 500g = 8 groups of 500g 8 x 2,000 = 16,000
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes.  b).  Hr Min 1hr=60min  11 30 315  + 5 15 60  16 : 45hrs 5hrs 15min  27a).  Sugar  1kg = 1000g 4kg = 4 x 1000g = 4,000g 4,000a 500g = 8 groups of 500g 8 x 2,000 = 16,000  Milk:
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes.  b).  Hr Min 1hr=60min  11 30 315  + 5 15 60  16 : 45hrs 5hrs 15min  27a).  Sugar  1kg = 1000g  4kg = 4 x 1000g = 4,000g  4,000g  500g = 8 groups of 500g  8 x 2,000 = 16,000  Milk:  1 litre = sh.1,500
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes. b).  Hr Min 1hr=60min 11 30 315 + 5 15 60  16 : 45hrs 5hrs 15min 27a).  Sugar  1kg = 1000g 4kg = 4 x 1000g = 4,000g 4,000a 500g = 8 groups of 500g 8 x 2,000 = 16,000  Milk: 1 litre = sh.1,500 1½ litres = 1½ x sh.1,500
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes.  b).  Hr Min 1hr=60min  11 30 315  + 5 15 60  16 : 45hrs 5hrs 15min  27a).  Sugar  1kg = 1000g  4kg = 4 x 1000g = 4,000g  4,000g  500g = 8 groups of 500g  8 x 2,000 = 16,000  Milk:  1 litre = sh.1,500
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes. b).  Hr Min 1hr=60min 11 30 315 + 5 15 60  16 : 45hrs 5hrs 15min 27a).  Sugar  1kg = 1000g 4kg = 4 x 1000g = 4,000g 4,000g 500g = 8 groups of 500g 8 x 2,000 = 16,000  Milk: 1 litre = sh.1,500 1½ litres = 1½ x sh.1,500 = 3½ x sh.1,500
7 7 1 LCM = 5 x 3 x 3 x 7 = 315 Both Sirens sounded after 315 minutes. b). Hr Min 1hr=60min 11 30 315 + 5 15 60 16 : 45hrs 5hrs 15min 27a). Sugar 1kg = 1000g 4kg = 4 x 1000g = 4,000g 4kg = 4 x 1000g = 4,000g 4,000g 500g = 8 groups of 500g 8 x 2,000 = 16,000 Milk: 1 litre = sh.1,500 1½ litres = 1½ x sh.1,500 = 3½ x sh.1,500 = sh.2,250
7 7 1  LCM = 5 x 3 x 3 x 7 = 315  Both Sirens sounded after 315 minutes. b).  Hr Min 1hr=60min 11 30 315 + 5 15 60  16 : 45hrs 5hrs 15min  27a).  Sugar 1kg = 1000g 4kg = 4 x 1000g = 4,000g 4kg = 4 x 1000g = 4,000g 8 x 2,000 = 16,000  Milk: 1 litre = sh.1,500 1½ litres = 1½ x sh.1,500 = 3½ x sh.1,500 = sh.2,250  Book:

**Total:** sh.16,000 + sh.2,250 +

sh.2,000 = sh.20,250

b). sh.50,000
- sh.20,250
Sh.29,750
28. a) Let the be **y**Exterior 1

28. a) Let the exterior angle be  $\mathbf{v}$ 

,						
	Exterior	Interior	sum	1		
	angle	angle		l		
	У	5y	1800	l		

 $y + 5y = 180^{\circ}$  $= 180^{\circ}$ 6у  $= 180^{\circ}$ <u>6y</u> 6 6  $= 30^{\circ}$ <u>exterior angle = 300</u> b). Number of sides  $n = 360^{\circ}$ ext< n = 3600300  $n = \frac{36}{12}$ n = 12 sides. c). <sum =  $180^{\circ}$  x (n - 2)  $= 180^{\circ} \times (12 - 2)$ 

= 1800<sup>0</sup> 29a). No eggs collected 50 x 144 eggs 7,200 eggs

No eggs

30 eggs need 1 tray 7,200 eggs need (7,200 ÷30) trays 7,200 eggs need 240 trays

 $= 180^{\circ} \times 10$ 

b). 1 tray costs Shs10,000

240 trays cost Shs10,000x240 240 trays cost Shs2,400,000

30a).

Drinks =  $\frac{1}{3}$  Food =  $\frac{1}{2}$ Drinks + Food  $\frac{1}{3} + \frac{1}{2} = \frac{(2+3)}{6} = \frac{5}{6}$ 

Remainder

 $= 6/_{6} - 5/_{6} = 1/_{6}$ 

Rent

 $= 25/_{100} \times 1/_{6}$ 

= 1/<sub>4</sub> × 1/<sub>6</sub> = 1/<sub>24</sub>

Total fraction

5/<sub>6</sub> + 1/<sub>24</sub> = <u>20-1</u>/<sub>24</sub> = 19/<sub>24</sub>

Fraction left

24/<sub>24</sub> - 19/<sub>24</sub> = 5/<sub>24</sub>

5 parts = Shs60,000

 $5 \text{ parts} = (Shs60,000 \div 5)$ 

5 parts = Shs12,000

24 parts = Shs12,000x24

24 parts = Shs288,000

He earns Shs288,000

b). Amount spent on rent 1/<sub>24</sub> × Shs<del>288,000</del> <sub>12,000</sub>

1 x Shs12,000

Shs12,000 spent on rent

31. 1 rev = circumference

 $1 \text{ rev} = \pi d$ 

1 rev =  $22 \times 28^{4} \text{cm}$ 

7

1 rev = 22 x 4cm

1 rev = 88cm

5000rev =  $5000 \times 88$ cm

5000rev = 440,000cm

100,000cm = 1km

440,000cm = 440,000km

100,000

440,000cm = 4.4km

32a) Number of pieces

packed along;

The length =  $40/_5$  = 8 pieces

The width =  $36/_5$  = 7 pieces

The height= 20/5 = 4 pieces

 $(8 \times 7 \times 4)$  pieces = 224 pieces.

b). Volume of pieces of soap 5cm x 5cm x 5cm x 224

125cm<sup>3</sup> x 224

28,000cm<sup>3</sup>.

Volume of the big box

 $V = 40 \text{cm} \times 36 \text{cm} \times 20 \text{cm}$ 

 $V = 28,800 \text{cm}^3$ 

Volume of the space left.

28,800cm<sup>3</sup>

- 28,000cm<sup>3</sup>

800cm<sup>3</sup>



Engage

EACHERS.