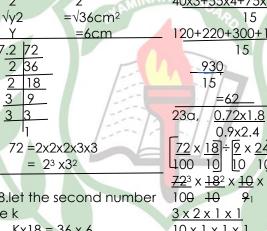
THE REAL PRIVATE TEACHER GUIDES MTC NEXT TO PLE -6 2022

	_
1 1 4 7	
1.147	
+5 3	
2. xc =90	
v =+ 4	
Xciv =94	
3.9x+5y-4y-2y	
9x -4x+5y-2y	
_5x+3y	-
4.4632	
¹ →3x10=30	
→4x1000	
4000	
+30	
4030	
58- 3	
-8-(3)	
-8+3	
	b
5	-
6. 0,2,10,17,18, <u>31</u> , <u>48</u>	
0+2=2	
2+3 =5	
5+5 =10	
5+7 =12	
, , , ,	
12+13 =31	
31+17 =48	h
7.Shade(MuN) ¹	
W. C. 17 JUNISTI	
1% () ½1	
, , ,	
8.144 pencils cost sh72,00	
1 pencil costs sh 72,00	C
144	
1 pencil costs shs 500	
8 pencils cost shs 500x8	
8 pencils cost sh 4000 9.(0.5x25)+(0.5x75)	
9.(0.5x25)+(0.5x75)	
0.5(25+75)	
5 XIU U	
<u>5</u> X10 0 10	
<u>5</u> x10 0	
5x10	
5x10 =50	X
5x10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
5x10 =50 10.sample space.	
5x10 =50 10.sample space. (1,2,3,4,5,6)	
5x10 =50 10.sample space. (1,2,3,4,5,6) Prime numbers	
5x10 =50 10.sample space. (1,2,3,4,5,6) Prime numbers (2,3,5)	
5x10 =50 10.sample space. (1,2,3,4,5,6) Prime numbers (2,3,5) Probability=3/6	
5x10 =50 10.sample space. (1,2,3,4,5,6) Prime numbers (2,3,5) Probability=3/6 11.102three =	
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5x10 =50 10.sample space. (1,2,3,4,5,6) Prime numbers (2,3,5) Probability=3/6 11.102three = (1x3)+(0x3)+(2x3) =1x3x3+0x3+2x1	

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12. 98000=9.8x10
13. boys: girls
       2:5
   Total ratio =2 + 5
              = 7
  7parts = 126pupils
   7parts = (126 \div 7)pupils
  7parts = 18pupils
  5parts =5x18pupils
   5parts =90pupils
   90pupils were gils
  90 girls were in class
14. 8:40am
    +:50min
     9 :30am
15. 50kg ÷1/2 kg packet
   50 x 2 packets
     =100packets
16. Lxw = area
   2y \times y = 72cm^2
    2y^2
          =72 \text{ cm}^2
  2y^2
          =72cm^{2}
                               b,
            =\sqrt{36}cm<sup>2</sup>
  √y2
              =6cm
17.2 72
  2 36
  2
     18
  3
      9
  3
   72 = 2x2x2x3x3
      = 2^3 \times 3^2
```



18.let the second number	10 0 10 9 1
be k	3 x 2 x 1 x 1
- Kx18 = 36 x 6	10 x 1 x 1 x 1
$18k = 36 \times 6$	<u>6</u>
$18k = 36 \times 6$	10 = 0.6
18 18	b). $\frac{4}{5} + \frac{1}{3} \times \frac{3}{4}$
K =2 x 6	<u>4</u> + <u>1</u> x <u>3</u> -
K =12	5 3 5
19. ky5041002	<u>4</u> + <u>1</u> – <u>1</u>
- ky5040903	5 5 6
0000099	<u>30 – 5</u>
99+1 =100notes	30
Shs 20,000x100	$\frac{24^4}{2} = 4$
Shs 2,000,000	35 5 5
20.1 pic represents 15egg	s 24.a) Rice
6 pics represents 6x15eggs	4 x Shs4,000

90 eggs need(90÷30) trays Shs15,000

6 pics represent 90eggs

30 eggs need one tray

90 eggs need 3 trays Onions 1kg = 1000g500 x Shs2000 $21.n(\Sigma) = 65$ 1000 n (5) = 42 n(F)=33 $500 \times Shs2 = Shs1,000$ 18 15 Total 3у Shs16,000 6 Shs12,000 Value of y Shs15,000 3y + 15 = 42+ Sh1,000 3y + 15 - 15 = 42 - 15Shs44,000 Зу = 27 b). Amount paid. 100% - 10% = 90% <u>.3</u>y =27 3 3 90 x Shs44,000 =9 100 90 x Shs440 n(E) = 3y + 6=3x3+6Shs39,600 =9+6 25a.) Let the first number =13 be w 22.a, Number of pupils 2nd 3 + 4 + 4 + 2 + 2W + 2W =15pupils w + w + 2 + w + 4 = 36w + w + w + 2 + 4 = 3640x3+55x4+75x4+60x2+85x2 3w + 6 = 36120+220+300+120+170 3w + 6 - 6<u>3w</u> 3 W 1st no 12nd no W = 10 w + 210 + 2 = 12 10 + 4 = 140.9x2.4 $72 \times 18 \div 9 \times 24$ b). median 100 10 10 10 10, <u>12</u>, 14 <u>median = 12</u> 723 x 182 x 10 x 10 26. Area of a square 91 241 $A = S \times S$ $A = 14cm \times 14cm$ x1x1 $A = 196 cm^2$ Area of a circle $A = \pi r^2$ = 0.6 $5 + \frac{1}{3} \times \frac{3}{5} - \frac{1}{4} \text{ of } \frac{2}{3}$ $A = \frac{22^{11}}{x} \times \frac{14^2}{x} \text{cm} \times \frac{14^7}{x} \text{cm}$

+ <u>1</u> x <u>3</u> – <u>1</u> x <u>2</u> 3 5 42 3

 $24^4 = 4$ 355 Rice

Shs16,000

Banana

Posho

3 x Shs4,000

Shs12,000

Sum

36

= 36 - 6

= <u>30</u>

3

10

7

 $A = 154cm^2$

196cm²

- 154cm²

42cm²

 $A = 11 \times 2cm \times 7cm$

Area of the shaded part.

3rd no

w + 4

W + 4

27. First drive k-6 $D = S \times T$ 15 - 6 = 9 years. 31.a) c = -2, k = -3 and p = 4D = 75km/hr x 2hrs $D = \frac{75}{km} \times 2hrs$ K-c+pΚ Hr-3-(-2)+4 $D = 75km \times 2$ D = 150km-3 **Second drive** -3 + 2 + 4 $D = S \times T$ -3 -<u>3 + 6</u> $D = 40 \text{km/hr} \times 3 \text{hrs}$ -3 D = 40 km x 3 hrs<u>3</u> Hr $D = 40 \text{km} \times 3$ D = 120km**Av. Speed** = 150 km + 120 kmb). $4 - 2y \ge 16$ $4 - 4 - 2y \ge 16 - 4$ 2hrs + 3hrs = 270 km- 2y ≥ 12 5hrs <u>- 2y</u> ≤ <u>12</u> 54km/hr - 2 -2

y ≤ -6

28a.)

1 day sells 25 bars 30 days sells 30 x 25 bars 30 days sells 750 bars. b).

1 bar costs Shs8,000 750 bars cost Shs8,000 x 750 750 bars cost Shs6,000,000 She earns Shs6,000,000 per

month. 29. Value of P

 $2p + 20^{\circ}$ $= p + 30^{\circ}$ $2p + 20^{\circ} - 20^{\circ} = p + 30^{\circ} - 20^{\circ}$ 2p $= p + 10^{\circ}$ 2p - p $= p - p + 10^{0}$ Ρ $= 10^{0}$

Size of angle BAC

 $180^{\circ} - (2p + 20^{\circ} + p + 30^{\circ})$ $180^{\circ} - (2 \times 10^{\circ} + 20^{\circ} + 10^{\circ} + 30^{\circ})$ $180^{\circ} - (20^{\circ} + 20^{\circ} + 10^{\circ} + 30^{\circ})$ $180^{\circ} - 80^{\circ}$ <u>100</u>0

30.a) Let the son's age be \mathbf{k} .

Time	Son	Musa	Total
Now	k	K+27	
6yrs	k-6	K+27-6	45
ago			

$$k-6+k+27-6=45$$

 $k+k27-6-6=45$
 $2k+27-12=45$
 $2k+15=45$
 $2k+15-15=45-15$
 $2k=30$
 2
 $k=15$
Musa now is $k+27$
 $k=15+27$
 $k=45$

b). Son's age 6 yrs ago

