

THE REPUBLIC OF UGANDA

STAR LIGHT EXAMINATION CONSULTANCY KAMPALA PRIMARY SEVEN PRE-PLE SET I EXAMINATION 2023 MATHEMATICS

Time allowed: 2 hours 30 minutes

	Random No.						Personal No.		
Index No.									
Candidate's	s Nam	e:	T.R.	MA	LJ	ER.		•••••	•••••
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Read the f	ollov	ving	instru	ıction	s car	efully	;		

- 1. This paper has two sections A and B
- 2. Section A has 20 short questions. (40marks)
- 3. Section B has 12 questions. (60marks)
- 4. All answers to questions in section A and B must be written in the space provided below.
- 5. Any hand writing that cannot easily be read may lead to loss of marks.
- 6. Do not fill things in the boxes shown: "for examiners' Use only".

FOR EXAMINERS' USE						
ONLY						
Qn. No.	Marks	Initials				
1-5						
06-10						
11-15						
16-20						
21 – 22						
25 – 26	1					
27 - 28						
29 – 30		1				
31 - 32						
TOTAL						

SECTION A (40 Marks)

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1. Fill in the missing numbers:-

$$5 + 5 = 2 x_5$$

2. Write the value of two fifth of one million in words.

400,000

3. A packet of coffee has a mass of $\frac{1}{8}$ kg. Find the total mass of 3 similar packets in grams.

Weight (Moss) of I packet 1 kg = 1000 g $\frac{1}{8} \text{kg} = (\frac{1}{8} \times 1000 \text{g}) \text{g}$

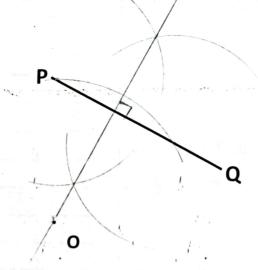
Mass of 3 packets

1 2 5 g

X 3

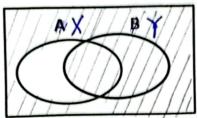
3 7 5 a

4. With the help of a ruler and a pair of compasses, draw a perpendicular line to line **PQ** through point **O**.



5. Shade (X - Y)1

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$$p' \mid p'' = \frac{1}{2} \frac{1}{4} \frac$$

$$(3xP)+2xI=(x4)(4)+(0x4)+(1)$$

 $3P+2=(+x4)+0+(x1)$
 $3P+2=16+0+1$

Range =
$$H-L$$
 Range = $2+2$
Range = $2-(2)$ Range = 4

8. Prime factorize 72 and state your answer in power form.

$$2^3 \times 3^2$$

$$Hr = \frac{44 \text{dm} \times 7}{4}$$

$$H_1 = \frac{44 \text{dm} \times 7}{4}$$

$$F = \frac{44 \times 7}{4}$$

$$F = \frac{24 \text{dm}}{4}$$

11. Given that,
$$x = \frac{2}{3}$$
 and $y = 2$. Simplify: $\frac{x}{y}$.

12. A guest house has rooms numbered consecutively from RM:36 to RM:60. How many rooms does it have?

13. Decrease Shs.18,000 in the ratio

14. If O represents 6 balls. Draw a picture graph to represent 15

No of pictures =
$$\frac{2 \cdot 31}{612}$$
 | $\frac{2 \cdot 2 \cdot 1}{2 \cdot 2 \cdot 2}$

15. A fisherman saw a boat on water at a bearing of 075°. What was the bearing of the fisherman from the boat? Bogt

16. Find the square of
$$y^3$$
.
 $(y^3)^2 = y^3 \times y^3$

17. Solve the inequality:
$$5 - 3y < 17$$
. $5 - 3y < 17$ $3y > 18$ $4 > -5$ $5 - 3y < 17 - 5$ $-3y < 15$ $-3y < 15$ $-3y < 15$ 18. What value must be subtracted from 5p to get $2p - 6$? $5p - (2p - 6)$ $3p + 6$ $(5p - 2p) + 6$

19. Find the GCD of 20 and 36.

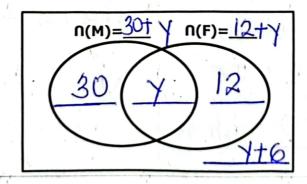
$$2 | 20 | 36 | GCD = 2X2$$

 $2 | 10 | 18 | = 4$

20. A school has 8 dormitories each with 55 students. If the school has a total enrollment of 900 students, find the number of day scholars in the school.

SECTION B (60 Marks)

- 21. At a birthday party, 30 people ate meat (M) only. y people ate both meat and fish (F). 12 people ate fish only, (y + 6) people ate neither of the two types of sauces.
- (a). Complete the Venn diagram. (1 mark)



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(b) If 26 people did not eat meat. Find the value of y. (2marks)

$$\frac{1}{100} \frac{1}{100} \frac{1}{100} = \frac{1}{100} = \frac{1}{100} \frac{1}{100} = \frac{1}{100} \frac{1}{100} = \frac{1}{100} = \frac{1}{100} \frac{1}{100} = \frac{1}{100$$

(c) How many people ate meat? (2marks)

22.(a) Simplify: $\frac{2}{3} - \frac{1}{4} \div \frac{1}{2}$. (2 marks)

$$\frac{2}{3} - (4 + \frac{1}{2}) \qquad \frac{2}{3} - \frac{1}{2} = \frac{4 - 3}{6}$$

$$\frac{2}{3} - (4 + \frac{1}{2}) \qquad = \frac{1}{6}$$

(b) Workout:
$$\frac{(0.2)^2}{1-0.8}$$
. (3 marks) $\frac{6}{1-0.8}$. (3 marks) $\frac{2}{1-0.8}$ $\frac{2}{1-0.8}$ $\frac{2}{10}$ $\frac{2}{10}$

- 23. A father shared sh. 500,000 equally among 2 boys and (x + 2) girls. If each child got sh. 25,000;
- (a) Find the value of x. (3marks)

Value of
$$X$$

 $X+2+2 = 20$
 $X+4 = 20$
 $X+4-4 = 20-4$
 $X=16$

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BUSS	Girls	
Sh 25000	sh 500,000 -sh 50,000	
X 2		
Sh50,000	sh45,0000	

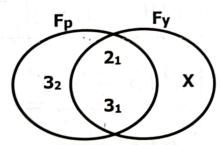
Difference Sh 450,000 -Sh 50,000 Sh 400,000

24. A motorist drove an average speed of 72km/hr from Kampala to Masaka. On his return journey through the same route, he drove at a speed of 96km/hr. If he spent 25 more minutes on his first journey than the return journey, find the distance from Kampala to Masaka.

ulan the return journey, i
(5marks)
1 -1 1 h a lill
Let the distance be d
D-D = Difference
CC
2 2
1 1 5
9-9 = 25
72 96 -
10 00
13d-3d 12
5/
2XX - 710

ne dutance be d	2	96	72	
- D = Difference	2	48	36	
S	2	24	18	1
-d - 05	2	12	9	
$\frac{1}{90} = \frac{25}{6}$	2	6	9	
- 2d 12	3	3	9	
288 - 5/12	3	-	3	
25. Given that the LCM of F	and	Fy is	90.	

QX2X2X2X2X2 X2X3 = 288 12xd = 288x5: Distance = 120km

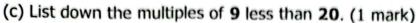


(a) Find the value of x. (2marks)

(b) Find the GCF of $\mathbf{F_p}$ and $\mathbf{F_y}$. (2 marks)

$$GCF = 2X3$$

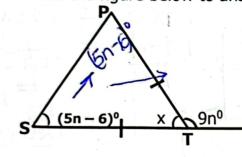
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26. Given that, X = 2y - 1. Complete the table below. (5marks)

x	3	-1	-5	7
У	2	0	-2	4

X	У	X	Y	
X = 2Y - 1	QY-1=X	X = 24-1	24-1= X	· 0
X = (2x2) - 1	2y-1=-1	X = (2X-2)-1	24-1=7	<u> </u>
X= 4-1	24-1+1=-1+1	X= -4-B1	24-1+1=7+1	
$\frac{\chi = 3}{27}$ Use the	figure below to an	$\chi = -5$	1 (2) = 84	in the second



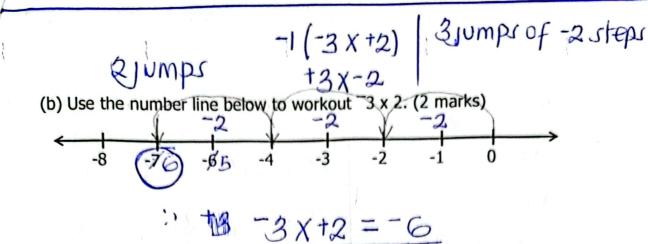
(b) Find the size of angle PTS. (2 marks)

$$X = 180^{\circ} - (90^{\circ})$$

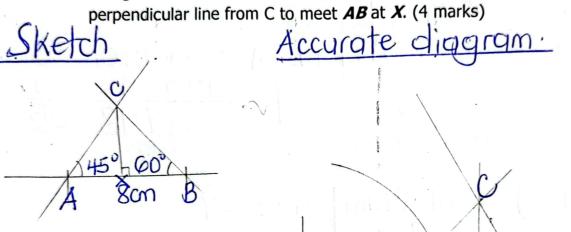
$$P+(t+) = 0$$

 $P+4 = 0$
 $P+4-4 = 0-4$

$$\frac{P}{\text{the inverse of } -4}$$



29.(a) Using a ruler, pencil and a pair of compasses only, construct a triangle ABC where AB = 8cm, $<A = 45^{\circ}$, $<B = 60^{\circ}$. Drop a perpendicular line from C to meet AB at X. (4 marks)



(b) Calculate the area of the triangle. (1 marks)

$$A = \frac{BXH}{2}$$

$$A = \frac{4 \text{cm } \times 5 \text{cm}}{2}$$

$$A = \frac{8 \text{cm } \times 5 \text{cm}}{2}$$

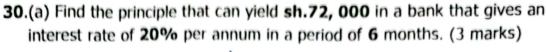
$$A = 20 \text{cm}^{2}$$

45°

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$$P = \frac{100I}{RXT}$$

$$P = \frac{100XSh72000}{P = Sh720,000}$$

$$P = sh7200x100$$

 $P = sh720,000$

- (b) Calculate the amount of money that will be on that account by the end of 6 months. (2 marks) $A = P + L \mid A = Sh 720,000$
- 31. The sum of the interior angles of a regular polygon is 1260°.
- (a) Find the number of sides the polygon has. (2 marks)

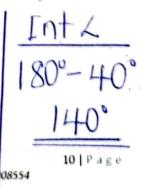
$$\begin{array}{c|c}
 & n-2 = 7 \\
 & n-2+2 = 7+2 \\
 & n = 9
\end{array}$$

(b) Name the polygon. (1 mark)

longgon

(c) Find the size of each interior angle of the polygon. (2 marks)

EXTL	
Intel Zsum	į.
上 中 X t X cide 1	
MEXITY Side	
9	



32. The table below shows the exchange rate at a Forex Bureau.

Currency	Buying	rate (Ugsh.)	Selling	price (Ugsh)
Us Dollar (\$)	3700		3800	_
British Pound (£)	5100	X	5200	÷
Kenya sh. (Ksh)	36		37	

(b) A trader had **5000** Kenyan shillings. How much money did he get in Uganda shillings? (2 marks)

Ksh 1
$$\rightarrow$$
 Ugsh 36
Ksh 5000 \rightarrow Ugsh (5000x36)
= Ugsh 180,000

(b) A tourist had 7600 pound sterlings. How much money in Us dollars did he get from the Fore Bureau? (3 marks)

Ugsh 3800, 10,200 US dollars

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