



THE REPUBLIC OF UGANDA

STAR LIGHT EXAMINATION CONSULTANCY KAMPALA

PRIMARY SEVEN PRE-PLE SET I EXAMINATION 2023

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index No.

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Random Number:

District ID:

Read the following instructions carefully;

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		
27 - 28		
29 – 30		
31 - 32		
TOTAL		

SECTION A (40 Marks)

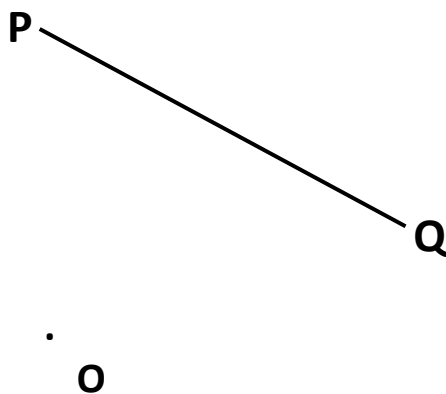
1. Fill in the missing numbers:-

$$5 + 5 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

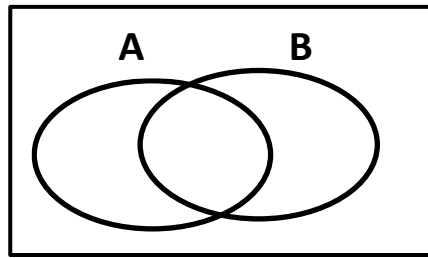
2. Write the value of two fifth of one million in words.

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

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



5. Shade $(X - Y)^1$



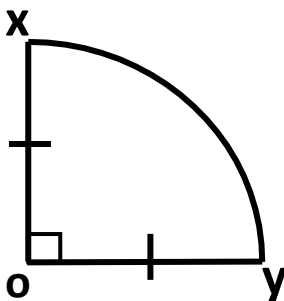
6. Find the unknown **P**.

$$32_P = 101_{\text{four}}$$

7. Find the range of **0.5, 2, 1** and **-2**.

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

9. If the length of arc **xy** is **44dm**. Find the length of **xo**.



10. Subtract:

Min	Seconds
5	20
$\overline{2}$	45
<hr/>	

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 of **2:3**.

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

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

16. Find the square of y^3 .

17. Solve the inequality: $5 - 3y < 17$.

18. What value must be subtracted from $5p$ to get $2p - 6$?

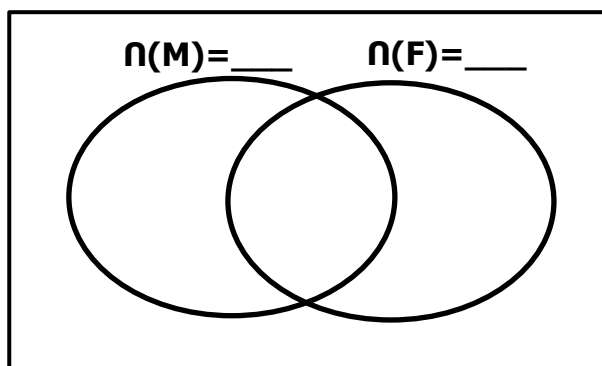
19. Find the **GCD** of **20** and **36**.

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)**



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

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

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

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

23. A father shared **sh. 500,000** equally among **2** boys and **(x + 2)** girls.

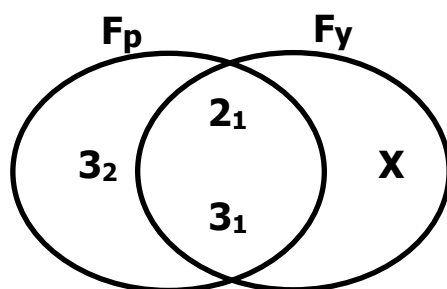
If each child got **sh. 25,000**;

(a) Find the value of **x**. (3marks)

(b) Find the difference in the total share of boys and girls. (2marks)

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. (5marks)

25. Given that the LCM of F_p and F_y is 90.



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

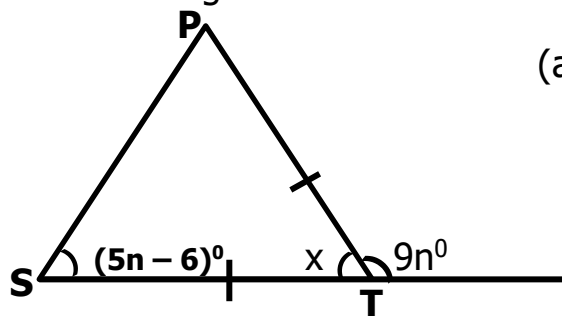
(b) Find the GCF of F_p and F_y . (2 marks)

(c) List down the multiples of **9** less than **20**. (1 mark)

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

x	<u> </u>	-1	<u> </u>	7
y	2	<u> </u>	-2	<u> </u>

27. Use the figure below to answer the questions below.

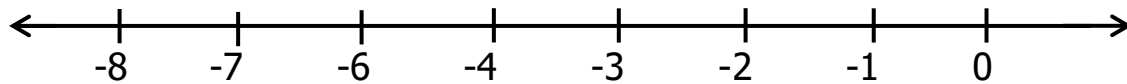


(a) Find the value of **n**. (3 marks)

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

28. (a) What is the additive inverse of the value of $-3 - -7$? (3 marks)

(b) Use the number line below to workout -3×2 . (2 marks)



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

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

30.(a) Find the principle that can yield **sh.72, 000** in a bank that gives an interest rate of **20%** per annum in a period of **6** months. (3 marks)

(b) Calculate the amount of money that will be on that account by the end of **6** months. (2 marks)

31. The sum of the interior angles of a regular polygon is **1260°**.

(a) Find the number of sides the polygon has. (2 marks)

(b) Name the polygon. (1 mark)

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

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	5200
Kenya sh. (Ksh)	36	37

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

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

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