

THE JEROX PRE - PLE SET I EXAMINATION 2024

Primary Seven Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

Index No.

Random No.

Personal No.

NAME: _____

SCHOOL: _____

SIGNATURE: _____ DISTRICT: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two section A and B
2. Section A has 20 questions (40 marks) and Section B has 12 questions (60 marks)
3. Answer all questions in both sections A and B.
4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
Only diagrams should be drawn in pencil.
5. Unnecessary crossing will lead to loss of mark
6. Poor handwriting, which can not be easily read may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

Teacher's comment to the pupil

ORGANISED BY:



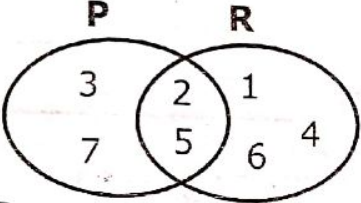
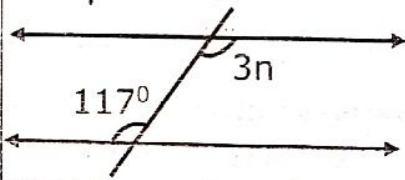
THE JEROX EDUCATIONAL CONSULTANCY KAMPALA

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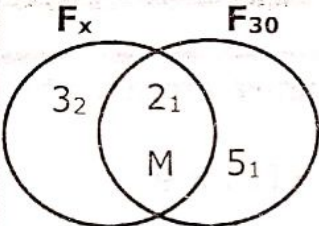
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TURN OVER

SECTION A (40 Marks)

1.	Multiply: 32×6	2.	What is the place value of 3 in 234 _{five} ?
3.	Workout: $2 + k = 4$ (finite 5)	4.	Solve: $2n + 5 = 13$
5.	<p>Study the Venn diagram and answer the question.</p>  <p>Describe members of set P.</p>	6.	Express 108 km/h into metres per second.
7.	Jackson is four times as old as Shamim, the difference in their ages is 18 years. How old is Jackson?	8.	<p>Study the figure and answer the question.</p>  <p>Find the value of n.</p>
9.	Divide: $1896 \div 12$	10.	Workout the square root of $1\frac{11}{25}$



11.	Convert 8.009 tonnes to kg.	12.	The circumference of a circular pond is 44dm . Calculate the radius.
13.	<p>Study the Venn diagram and answer the question.</p>  <p>Find the value of M.</p>	14.	Using a ruler, pencil and a pair of compasses only, construct an angle of $67\frac{1}{2}^\circ$.
15.	Given that set $W = \{\text{all prime numbers between } 90 \text{ and } 100\}$. Find $n(W)$.	16.	The bus fare from Kampala to Gulu was increased by $16\frac{2}{3}\%$. If the old bus fare was Sh. 30,000 . Calculate the new fare.
17.	Expand 79.08 using powers of ten.	18.	Opio turned clockwise from North to South east, through what angle did he turn?

19. The LCM of two numbers is **36** and their GCF is **6**. If one of the numbers is **12**, calculate the second number.

20. Given that $2^n = 8$. Find the value of **n**.

SECTION B (60 Marks)

21. a) Workout the number whose scientific notation is **3.8×10^2** .

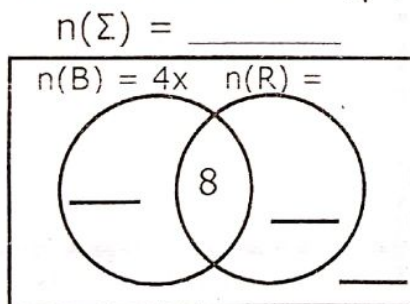
(02 marks)

- b) Use distributive property to workout.
 $(125 \times 9) - (25 \times 9)$

(02 marks)

22. In a family **$4x$** members eat beans (**B**) same eat rice (**R**), 8 members eat both beans and rice, **13** members eat rice only while (**$x-3$**) members did not eat any of the two types of food.

- a) Use the above data to complete the Venn diagram below.



(03 marks)

- b) If **19** members did not eat rice, calculate the value of **X**.

(02 marks)



23. a) Simplify: $\frac{2.4 \times 0.5}{0.12}$

(02 marks)

b)

Workout: $2\frac{7}{15} + \frac{3}{7} \div \frac{9}{14} \times \frac{4}{5}$

(03 marks)

24. a) Using a ruler, pencil and a pair of compasses only, construct a triangle **RST** where **RS=7cm**, angle **RST = 75°** and length **ST = 6cm**.

(04 marks)

b) Measure length **RT**.

(01 mark)

25. Ochola bought the following items.

4kg of sugar at Sh. 3800 per kg

200g of tea leaves at Sh. 2000 per kg

3½ kg of beans at Sh. 1400 per half kg.

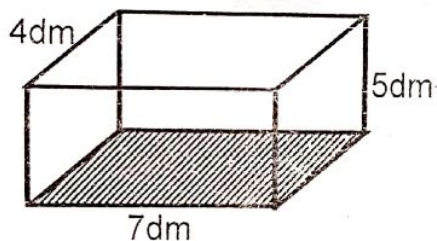
a) How much money did Ochola spend for all the items?

(04 marks)

b) If Ochola paid **Sh. 22,000**, calculate the discount he was offered.

(01 mark)

26. Study the diagram below and answer the questions



a) How many vertices does the figure have?

(01 mark)

b) Calculate the area of the shaded region.

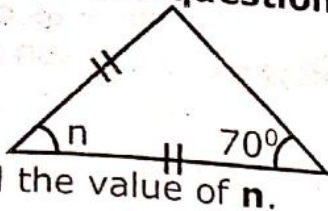
(04 marks)

c) Work out the sum of all the length of edges the above prism.

(02 marks)



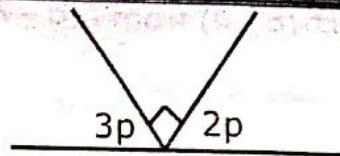
27. Study the figure below and answer the question.



a) Find the value of n .

(02 marks)

b)



Workout the size of angle mark $3p$.

(03 marks)

28. a) Increase **60** pupils in the ratio of **6:5**.

(02 marks)

b)

Arrange $\frac{1}{2}$, $\frac{2}{3}$ and $\frac{3}{5}$ starting with the biggest.

(04 marks)

29. a) **Workout:** $2 - 3 = \underline{\hspace{1cm}}$ (finite **5**)

(02 marks)

b)

While marking a test of **25** questions, a teacher awarded **4** marks for every correct answer and deducted a mark for every wrong answer. If Teddy scored **70** marks, how many questions did she get correct?

(04 marks)

30.	a) Subtract $(a - 4)$ from $(4a - 7)$	b)	A father is 20 years older than his son. In 15 years time, the father will be twice as old as his son. How old is the son now?												
	<i>(02 marks)</i>		<i>(03 marks)</i>												
31	P.7 did a test and scored as shown on the table below. Study and answer the questions.														
	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 10px;">Marks</td> <td style="padding: 2px 10px;">72</td> <td style="padding: 2px 10px;">85</td> <td style="padding: 2px 10px;">90</td> <td style="padding: 2px 10px;">95</td> <td style="padding: 2px 10px;">96</td> </tr> <tr> <td style="padding: 2px 10px;">No of pupils</td> <td style="padding: 2px 10px;">4</td> <td style="padding: 2px 10px;">12</td> <td style="padding: 2px 10px;">1</td> <td style="padding: 2px 10px;">4</td> <td style="padding: 2px 10px;">5</td> </tr> </table>			Marks	72	85	90	95	96	No of pupils	4	12	1	4	5
Marks	72	85	90	95	96										
No of pupils	4	12	1	4	5										
a)	What was the model mark.	b)	Calculate the mean mark of the pupils who scored above 85 .												
	<i>(01 mark)</i>		<i>(03 marks)</i>												
32	A fruit seller had sacks containing 72 mangoes, 84 oranges and 96 apples to be sold in equal number in heaps.														
a)	Find the highest number of heaps in each category of fruits.	b)	How many heaps were formed from a sack of 96 apples?												
	<i>(03 marks)</i>		<i>(02 marks)</i>												

