KOLFRAM EDUCATIONAL SERVICES KAMPALA

THE KOLFRAM

PRE NATIONAL MOCK EXAMINATION 2024

SET SIX (BLUE PRINT)

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index Number:	Random Number					Personal Number			
Candidate's Name:									
Candidate's Signature:									
School ID:									
District ID:									

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

Read and follow these instructions carefully:

- This paper has two sections: A and B. Section A has 20 questions and section B has 12 questions.
 The paper has 8 printed pages.
- 2. Answer **all** questions. **All** answers to both sections A and B must be shown in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
- 4. No calculators or **electronic** pens are allowed in the examination room.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

FOR EXAMINER'S USE ONLY

QN. NO.	MARKS	EX'ER'S INITIAL
1 -5		
6 - 10		
11 - 15		
16 - 20		
21 - 23		
24- 26		
27-29		
30- 32		
TOTAL		

Turn Over

© 2024 KESK PRE NATIONAL MOCK SET VI MATHEMATICS EXAMINATION

Trust Kolfram Educational Services for quality workbooks, companion books, PLE revision workbooks, PLE question Banks, Topical workbooks, Quality Assessments and Holiday packages

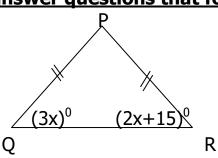
	SECTION A	: (40	MARKS)
	Work out: 3 4 0	2.	Write 199 in Roman numerals.
	<u>- 48</u>		
3.	Describe the shaded region.	4.	What is the cost of 250 grams of sugar at 3200 per kg?
	A B		ut 3200 per kg.
5.	The average of 5 numbers is 20. Find the sum of the numbers.	6.	Work out: $\frac{1}{9}$ x $\frac{3}{5}$
	the sum of the numbers.		9 3
7.	A meeting started at 8:30 a.m. and lasted 50 minutes. At what time did it	8.	Solve the inequality: $2x + 4 \leq 6$
	end?		
9.	Using a pair of compasses, a pencil a apart.	nd a	ruler only, construct parallel lines 3cm
10	What is the square root of $12\frac{1}{4}$?	11.	Decrease 420 books by 30%

12	Work out: 1 1 0 _{two} x 1 1 _{two}	13	If today is Wednesday, what day of the week will it be 23 days from now?
14	Find perimeter of the figure below. 4m 8m 5m	15	What number is expanded to give; $(2 \times 10^3) + (7 \times 10^2) + (5 \times 10^1) + (8 \times 10^0)$
<u>16</u>	Find the bearing of A from B. N N B S D S D S D S D S D S D S D S D S D S		
<u>17</u>	How many bottles of water each 0.5 litres can be filled from a water tank of 50 litres?	<u>18</u>	Work out: 6p ⁸ ÷ p ³
<u>19</u>	12 technicians can paint a school build technicians take?	ing i	n 10 days. How long will 15
20.	Write the mathematical statement s	shou	n on the number line below.

5

-1

SECTION B (60 MARKS) 21 Study the diagram below and answer questions that follow. D (a) Find the value of the value of



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

(b)	Find the	size of	angle QPR	in degrees.
-----	----------	---------	-----------	-------------

(3 marks)

Work out:
$$1\frac{1}{2} + \frac{3}{4} \div 1\frac{1}{2}$$
 (3 marks)

23. The table below shows marks scored by different pupils. Study it and answer the questions that follow.

Marks	35	40	50	70	90
No. of pupils	2	3	2	2	1

(a) Find the median mark.

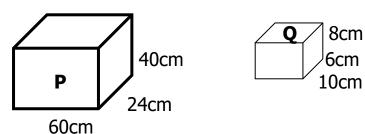
(2 marks)

(b)	Find the modal mark. (1 mark)	(c)	Find the mean mark. (2 marks)
24	a) Write 824.57 in expanded form using powers. (2 marks)	(b)	Write 2 2 2 2 2 in words. (1 mark)
		(c)	What is the place value of 3 in the number 321_{five} ? <i>(1 mark)</i>
25	At Jinja Bus park, buses travelling to minutes and 30 minutes respectively. together at 10:00 a.m. At what time together again?	The will b	first buses to the two towns leave

26	The venn diagram below shows people at a birthday party who like soda or beer or any other drink.		
	(a) Find the value of x if $x - 4$ like both types of drinks and 40 people like soda.		
	Soda Beer (2 marks) x + 8 2x x - 10		
	(b) How many people like beer? (2 marks) (c) How many people like soda only? (1 mark)		
27	a) Using a ruler, a pencil and a pair of compasses only, construct a parallelogram PQRS such that line QR = 7cm, and line PQ = 5cm, angle Q = 60° . (4 marks)		
	(b) Measure the diagonal QS. (1 mark)		

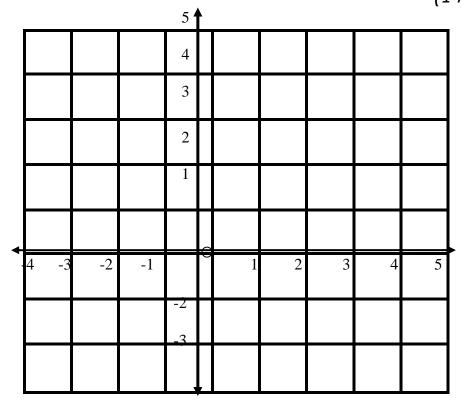
28.	A farmer sells $\frac{1}{2}$ of the daily milk collection from his farm. He gives $\frac{2}{5}$ of the
	remaining amount of milk to his parents and remains with 9 litres for his family. How many litres of milk does he collect daily? (5 marks)
	Thow many hares of mink does he concee daily.
	Okot bought the following items from the market.
	3kg of sugar at shs. 3400 per kg.
	1 ½ kg of rice at shs. 3600 per kg.
	1500 grams of maize flour at shs. 3000. 8 mangoes at shs. 500 each.
(a)	Calculate his total expenditure. (4 marks)
(b)	Find his change if he had shs. 30000. (1 mark)
30	(a) Solve: $p - 1 = 2p + 5$ (b) Solve for $y: 2y + 2 = y + 3$
	(2 marks) 3 2 (3 marks)
	(5 marrie)

31. Kiyemba filled container **P** below with juice. He served juice to pupils of preprimary using container **Q** as shown in the diagram.



Find the total number of full containers (Q) of juice he served. (4 marks)

32 a) On the graph below, plot the points P(-2, 3), Q(4, 3), R(4, -1),S (-2, -1) (1 mark each)



(b) Join P to Q, Q to R, R to S and S to P (c)
(1 mark)

(c) Draw the diagonals PR and QS. Find coordinates of the intersection of the diagonals. (1 mark)