KAMPALA PRIMARY EXAMINATION BOARD

PRIMARY SEVEN SET I EXAMS TERM II

ASSESSMENT 2024

MATHEMATICS

DURATION: 2 HOURS 15 MINUTES

INDEX NUMBER	EMIS NUMBER						PERSONAL NUMBER		

Name

School

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
Read the following instructions carefully

1. This paper is made up of two sections **A** and **B**
2. Answers to both sections must be written in the spaces provided in full sentences
3. Section **A** has **20** questions (40 marks)
4. Section **B** has **12** questions (60 marks)
5. **Attempt ALL questions** All answers to both Sections A and B **MUST** be written in the spaces provided
6. ALL answers must be written in blue or Black ball point or ink. Only diagrams And graphs work must be done in pencil
7. Unnecessary alterations of work will lead to loss of marks

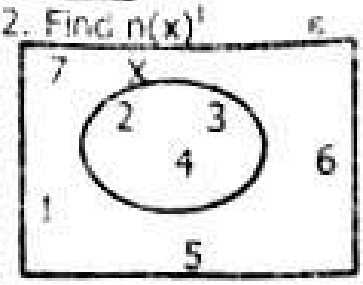
FOR EXAMINERS USE ONLY

QN.NO.	MARK	SIGN
1 - 10		
11- 20		
21- 22		
23- 24		
25- 26		
27- 28		
29- 30		
31- 32		
TOTAL		

SECTION A

1. Workout: $28 \div 4$

2. Find $n(x)'$



3. Convert 10011_{two} to decimal system

4. Write 149 in Roman numerals.

5. Simplify: $3a - 2b - a + 5b$

6. Find the sum of 4th and 7th prime numbers.

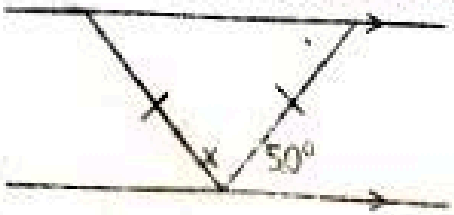
7. Express 800cm as metres.

8. Workout: $3^0 + 6^1 \times 6^{-1}$

9. John walked 3km in 30 minutes. Calculate his speed in km / hr.

10. Use distributive property to work out: $(18 \times 19) + (19 \times 22)$

11. Find the value of angle marked x.



12. Simplify: $2 \div 3$ (finite 5)

13. Workout the median of
1, -2, 3, 4, -3 and 3

14. Solve: $3(y + 1) - (y + 2) = 9$

15. Using a ruler, pencil and a pair of compasses only. Construct an angle of 60°.

16. The time shown on the clock face below is in the afternoon. Write it in 24 hour clock.

17. Express 73490 in standard form.

18. Find the least number of books a teacher can give pupils in class among 5 girls or 6 boys and there is a reminder of 2 books.

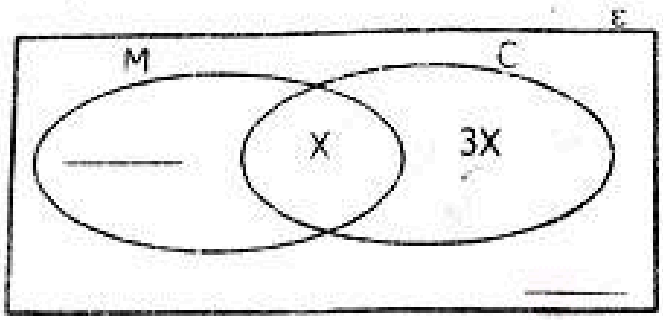
19. The complementary angle of $(2x - 20)^{\circ}$ is 40°. Find the value of x

20. Find the circumference of the figure below (Take $\pi = \frac{22}{7}$)

SECTION B

21. In a village all farmers grow beans(B), x farmers grow all the three crops, (x- 8) grow only beans(B) but not cassava (C) and maize (M). (2x - 1) grow beans and maize only while 3x grow beans and cassava only.

a). Complete the Venn diagram below.



(3mks)

b). If the village has 30 farmers who grow beans and cassava only. Find the value of x. (2mks)

c). How many farmers grow beans in the village? (2mks)

22. A bus driver covered a distance of 120km in $1\frac{1}{3}$ hours.

a). At what speed was he travelling? (2mks)

b). What distance would he cover if he travelled for 2 ½ hours? (2mks)

23. A box containing 2 dozen of books weighs 9.6kg. If the box when empty weighs 2.4 kg. Find the weight of each book in grammes. (4mks)

24a). Express $^{2}/_{3}$ as a recurring decimal. (2mks)

b). Change 0.27777..., into a vulgar fraction. (1mk)

c). Convert 0.5 to a simplified fraction. (1mk)

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

Marks	34	40	50	70	90
No. Of pupils	2	3	2	2	1

a). What was the modal mark? (1mk)

b). Find the range. (1mk)

c). Calculate the average mark. (3mks)

26. Using a pair of compasses a pencil and a ruler only, construct a triangle ABC such that BC = 7cm, <ABC = 30° and <BCA = 90° (4mks)

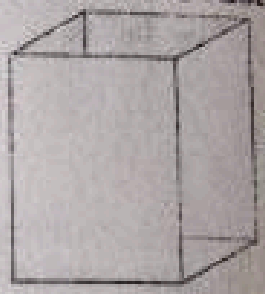
b). Measure A.C = _____ (1mk)

27. Square tiles of sides 20cm each were laid on a floor of a room measuring 600cm by 400cm

a). Find the number of tiles to cover the floor. (3mks)

b). If a box containing 25tiles costs 50.000. Find the total cost of tiles needed to cover the whole floor. (3mks)

28. The top area of the rectangular container below is 450cm²



a). Calculate the volume of the above container. (2mks)

b). Find the number of litres of water the container can hold when 2/3 full. (3mks)

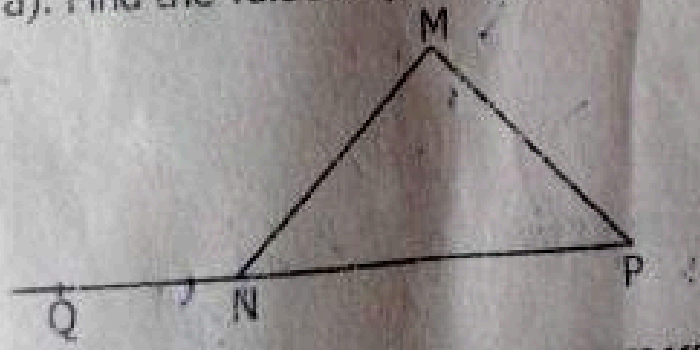
29. The average weight of 5 boys is 48kg. When the sixth boy joins them the average weight becomes 45kg.

a). Find the total weight of 5 boys. (2mks)

b). Calculate the weight of the sixth boy. (3mks)

30. Give that MN = PN, angle MNQ = (7y - 50)° and angle MPN = (y + 20)°

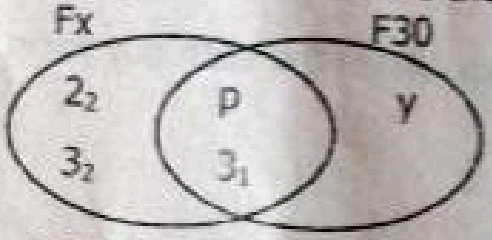
a). Find the value of y. (3mks)



b). Find the size of angle marked MNP. (2mks)

31. In a school of 3600 pupils the ratio of boys to girls is 1:2. One day 20% of the boys and 25% of the girls were absent. If 7books were given to each pupil present. Find the number of books given out altogether on that day. (5mks)

32. The Venn diagram below shows the prime factors of x and 30



a). If the GCF of x and 30 is 6, find the value of P (2mks)

b). Find the value of y. (2mks)

c). Workout the LCM of x and 30. (2mks)

The End