KAMPALA PRIMARY EXAMINATION BOARD

PRIMARY SEVEN PRE PLE SET II ASSESSMENT 2022

MATHEMATICS

DURATION: 2 HOURS 30 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 alternations of work will lead to loss of marks.
8. Any handwriting that cannot be easily Read may 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		

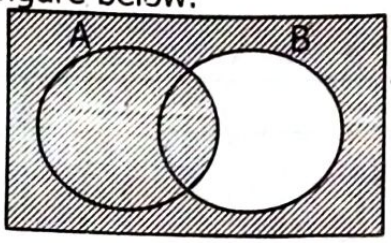
SECTION A

1. Work out: 32 x 4

2. Simplify: $\bar{8} - \bar{3}$

3. Write 47,815 in words

4. Describe the shaded region in the figure below.



5. Solve for p: $\frac{p}{4} + 2 = 7$

6. Find the next number in the sequence
2, 4, 7, 12, 19, _____

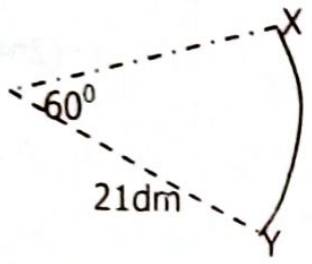
7. A motorist covered 80km in $^{2}/_{3}$ of an hour. Find the speed in km/hr.

8. The perimeter of a rectangle is 40m. Its length is 12m. Find its width

9. Work out (23x59) – (29 x 23) using the distributive property.

10. In a bag, there are 45 pens, some of the pens are blue while others are black. The probability of picking a blue pen is $^{5}/_{9}$. How many black pens are in the bag?

11. Work out the length of the angle XY in the diagram below



12. A trader withdrew a bundle of 5,000 shilling notes from a bank numbered consecutively from EF 8182010 to EF 8182194. How much money did the trader withdraw?

13. Work out: $\frac{1}{2} - \frac{1}{3} \times \frac{1}{4}$

14. Find the square root of 256

15. Tea is sold in ¾kg packets. How many packets can be made from 24kg of tea?

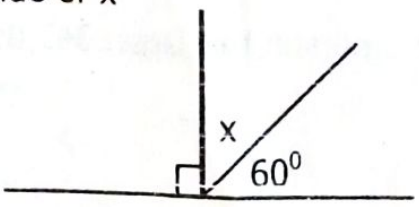
16. If today is Monday, What day of the week will it be after 38 days?

17. Work out 3 x 12 using repeated addition.

18. Find the range of 3, -5, 1, -2 and 7

19. Solve: $3^{2m} \div 81 = 1$

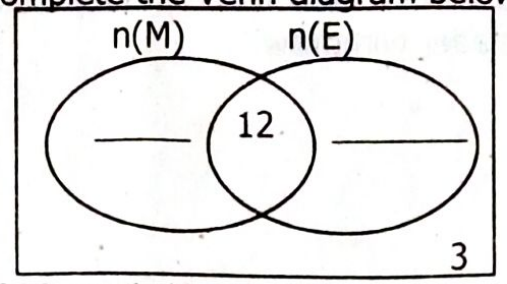
20. Study the figure below and find the Value of x



SECTION B

21. In a class 38 pupils like Maths (M), 2k like English (E) only, 12 like both subjects while 3 like none of the subjects.

a). Complete the Venn diagram below. (2mks)



b). If 30 pupils like English, find the value of k (2mks)

c). Find the probability of choosing a pupils at random who likes both subjects. (1mk)

22. At a certain forex bureau, the exchange rates are as follows:-

i). 1 US $ = UgSh. 3600

ii). 1Ksh = Ugsh. 40

a). Kirya received 15US$ and Ksh. 350 on his birthday. How much money did he receive in Uganda shillings? (3mks)

b). If a person has Ugsh 342,000, how many US $ can the person get? (2mks)

23. A cyclist rode from town X to town Y at a speed of 60km/hr and took 1hr30minutes. From town Y, he changed the speed and rode at 75km/hr and reached town Z after 40 minutes.

a). How far is town Z from X? (3mks)

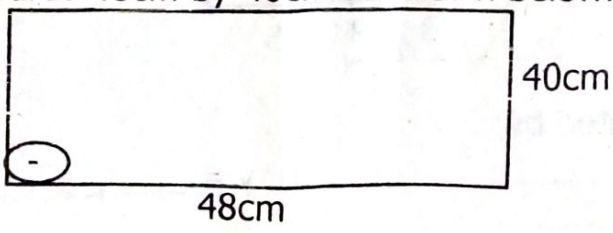
b). The cyclist returned directly to town X at a speed of 70km/hr. How much time did he take? (3mks)

24. In a basket $^{5}/_{8}$ of the apples are red, $^{1}/_{6}$ are yellow and the rest are green.

a). Find the fraction of the green apples in the basket. (3mks)

b). If there are 60 green apples in the basket, how many apples are in the basket altogether? (2mks)

25. Ritah made circular cards of radius 3½ cm from a rectangular manila paper that measures 48cm by 40cm as shown below.



a). How many cards did she cut out? (3mks)

b). Calculate the area of the manila unused. (3mks)

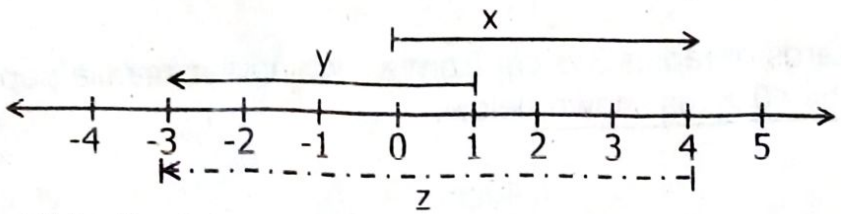
26. Using a ruler and a pair of compasses, construct a triangle KPQ where KP = 6cm, PQ = 5cm and angle KPQ = 120^0 (4mks)

b). Measure;

i). line KQ (1mk)

ii). angle KQP (1mk)

27. Study the number line below and answer questions that follow.



a). Write the integer represented by;

i). x = _____ ii). y = _____

iii). z = _____

b). Write the mathematical sentence shown on the number line above (1mk)

28. On a farm, the ratio of cows to goats to sheep is 5:2:4 respectively. There are 27 more cows than goats on the farm.
a). How many animals are on the farm altogether? (3mks)

b). Find the number of sheep on the farm. (2mks)

29a). Workout: $1101_{two} + 110_{two}$. (2mks)

b). If 103m = 28ten, find the value of m. (3mks)

30. Tonny is 8 years old and James is 38 years old.
a). In how many years will James be twice as old as Tonny? (3mks)

b). Find James' age after the period in (a) above. (2mks)

31. The centre angle of a regular polygon is 72^0. Name the polygon. (2mks)

b). Calculate the interior angle sum of the polygon. (2mks)

32. A piece of land is used as follows; 5 hectares for growing food crops, 10 hectares for cash crops, 20 hectares for grazing and 25 hectares for hiring. Draw an accurate pie – chart of radius 3cm and represent the above information on it. (5mks)

END