MAKS ACADEMIC BOOSTER EXAMINATIONS BOARD

PRE-P.L.E SET IV TERM III EXAMINATION 2022

SUBJECT : MATHEMATICS

CLASS : PRIMARY SEVEN

DURATION : 2 hours 30 minutes

INDEX NO. | | | | | | | | | |

Candidate's Name:.....

Candidate's signature:.....

EMIS NO:.....

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has two sections: **A** and **B**
2. Section **A** has 20 questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Attempt all questions in both sections.
   All answers to both section **A** and **B** must be written in the space provided.
5. All answers must be written in *blue* or *black* ballpoint pens or *ink*. Only **diagrams** and **graph work** must be done in pencil
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks
8. Do not fill anything in the boxes indicated **"FOR EXAMINER'S USE ONLY"**

FOR EXAMINER'S USE ONLY		
QN NO.	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 -30		
31 - 32		

SECTION A

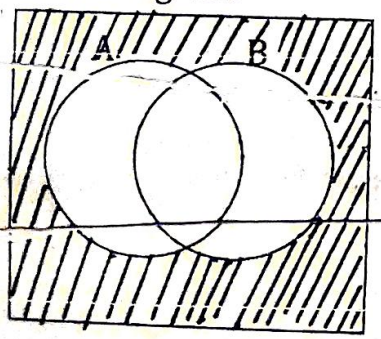
1. Work out $33 \div 3$

2. Write 8008 in words

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

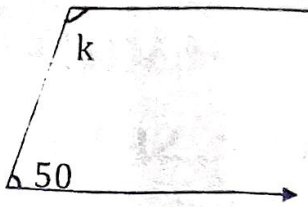
4. Increase sh. 6000 by 20%

5. Describe the shaded region the venn diagram



6. Express $\frac{3}{5}$ as a decimal fraction

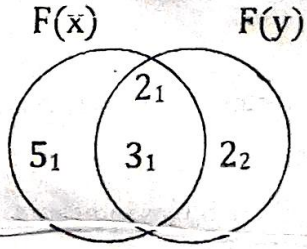
7. Find the value of k in the diagram.



8. Joan bought a watch at sh. 8000 and sold it making a profit of sh. 1500. Find the selling price of a watch.

9. Work out $1101_{two} + 11_{two}$

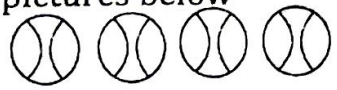
10. Use the venn diagram below to find GCF of Fx and Fy



11. Simplify: $6 + \bar{8}$

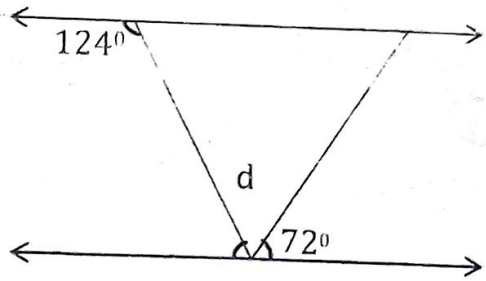
12. Simplify: $\frac{1}{2} - \frac{2}{3} + \frac{2}{4}$

13. Express $6\frac{1}{2}$kg to grammes

14. Given that  represent 8 balls. How many balls are represented by pictures below  ?

15. A motorist covered 240km in 3 hours. Calculate his average speed.

16. Find the value of d in the diagram below

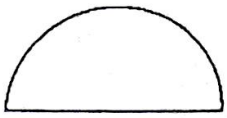


17. Find the greatest common factor(GCF) of 27 and 36.

18. Solve the inequality $9 \leq 3(m-1)$

19. How many 300 millitre bottles can be packed in 1.5 litres?

20. The perimeter of the figure below is 36cm.Find its diameter $(\pi = \frac{22}{7})$



SECTION B

21. Write the number whose expanded form in given below

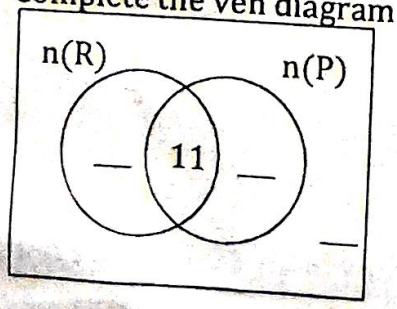
$(5x10^2)+(6x10^1)+(7x10^{-2})$ (2mks)

(b) Given the digits: 5,7 and 3 write the largest number formed from the digits in words

(2mks)

22 At a party, k guests ate Rice(R) only, (k+4) ate posho(P) only. 11 guests ate both types of food, while 2 did not eat any of the two types of food

(a) Complete the ven diagram



(3mks)

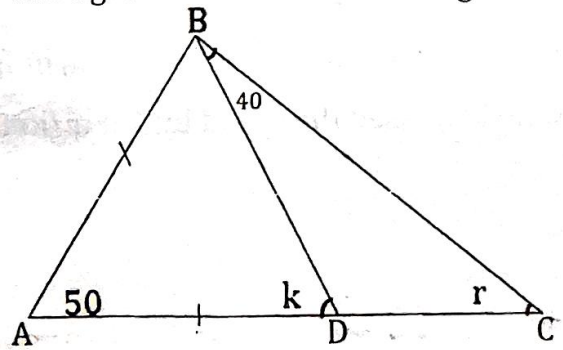
(b) If 22 guests ate only one type of food, find the value of k (2mks)

(c) How many guests attended the party? (1mk)

23. Solve: $\frac{2}{5}m-3=5$ (3mks)

(b) Subtract r+2 from 3r+4 (2mks)

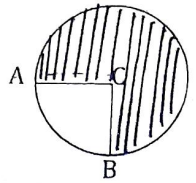
24. The figure ABC below is a triangle



(a) Find the size of angle marked k (2mks)

(b) Work out the value of r in the figure. (2mks)

25. If the length of the shorter are AB is 22 cm and C in the centre of the circle.



(a) Find the length of the longer area (2mks)

(b) Find the perimeter of the shaded part .($\pi = \frac{22}{7}$) (3mks)

26. Twaha was travelling from Agago to Arua at an average speed of 45km/hr for 2 hours. He discovered that he was slow he increased the speed by 15km/hr for the remaining 150km. (6mks)

27. By selling a mobile phone to Muleyi at sh. 275,000 Muleyi made a profit of 10% Mugalya sold the same mobile phone at a loss of 8% to Agatha.

(a) How much money did Muleyi pay for the phone? (2mks)

(b) Find the price at which Agatha bought the phone. (2mks)

28. On a farm, $\frac{1}{3}$ of the animals are goats $\frac{2}{5}$ are sheep and $\frac{1}{4}$ of the remainder are cows. If there are 45 cows . Find the total number of animals in the farm? (5mks)

29. Using a ruler, pencil and a pair of compasses only, construct quadrilateral WXYZ such that $\overline{WX}$= 8cm, WZ=5.5cm and angle WXY=45^0 (4mks)

(b) Measure the length of diagonal XZ (1mk)

30. A teacher wrote three consecutive even numbers on the chalkboard. The sum of the numbers he wrote is 36. If the middle number is p.

(a) Find the value of p (3mks)

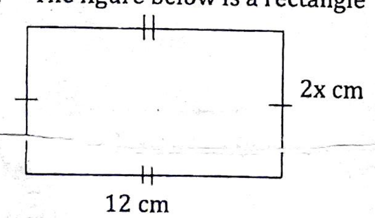
(b) Express 36 as a product of its prime factors. (2mks)

31. Martha, Winnie and Catherine a certain amount of money in the ratio of 2:5:3 respectively. If Winnie got sh. 60,000 more than Martha.

(a) How much money did they share? (3mks)

(b) Express the share for Catherine as a percentage. (2mks)

32. The figure below is a rectangle



(a) If the perimeter of the rectangle is 48cm. Find the value of x (3mks)

(b) Work out the area of the rectangle. (2mks)