ST. AGNES CATHOLIC GIRL'S BOARDING PRIMARY SCHOOL, NAGGALAMA
PRIMARY SEVEN PRE P.L.E SET TWO 2024

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Index No. | | | | | | | | | | |

Candidate's Name .....

Candidate's Signature .....

EMIS NO .....

District Name .....

Read the following instructions carefully:

1. This paper has two sections: A and B. Section A has 40 questions and Section B has 15 questions.
2. Answer all questions. All answers to both sections A and B must be written in the spaces Provided.
3. All answers must be written using a blue or black Ball-point pen or ink. Any work written in pencil other than graphs, pictures, diagrams and maps, will not be marked.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes indicated: "For Examiners' Use Only" and those inside the questions paper.
7.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
Total		

SECTION A

1. Workout: $48 \div 3$

2. Write 809043 in words.

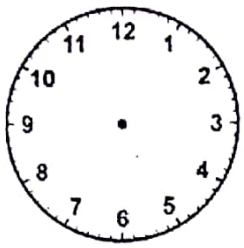
3. Find the numeral that was expanded to give:
   $(3x10^2) + (4x10^0) + (5x10^{-2})$

4. Workout $\frac{2}{3} \div 1\frac{1}{3}$

5. It takes 12 days for four men to build a house each earning sh.25,000 per day. How much will they earn altogether on completion of the house?

6. Given that $23_{five} = 1P1_{three}$. Find the value of P.

7. Show 0045Hrs on the clock face.



8. A motorist travelled at 72km/h to cover a distance of 54km. How many minutes did the journey take?

9. Simplify -5 – -3.

10. Angella used 250ml cups of milk to fill a 10 litre jerrycan. How many cups did she use.?

11. Peter had a tyre of radius 35cm. In how many revolutions will it make to cover a distance of 11 hetometres.

12. 2b and $(3b - 10^0)$ are complementary angles. Find the value of b.

13. Workout $3 - 4 =$ _____finite 5.

14. Express $\frac{3}{11}$ as a decimal number.

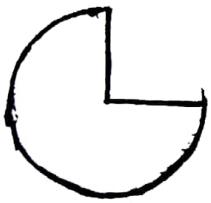
15. With the help of a pair of compasses, ruler and a pencil construct the supplement of 75^0.

16. Find the least number of eggs that can be shared among 6 or 9 pupils leaving an egg as a remainder.

17. Five thousand shillings notes numbered from CK 5118101 to CK 5118700 were withdrawn from the bank. How much money was withdrawn?

18. Given that Q = -3, P = -4 and r = 3P. Find the value of (q – r)P.

19. Given that  represents 60 oranges, how many oranges are represented by



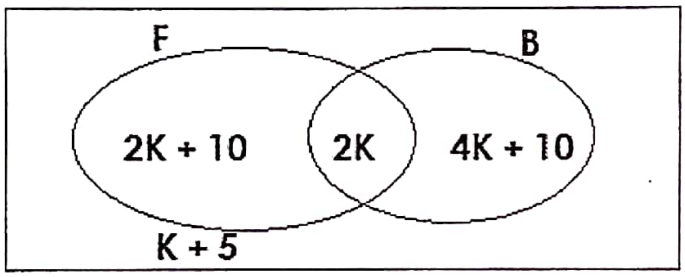
20. The prime factors of **t** and k are **fy** = {P,3,3_2} and $\mathbf{F_K}$ = {3,5,P}. If their GCF is 6. Find the value of **P**.

SECTION B

21. a) Workout: $\frac{3.4}{6.18 - 4.18}$ (3mks)

b) In a class, there are 20% more girls than boys. Given that there are 12 boys in the class, how many girls are in the class. (3mks)

22. At a party, candidates were served with beef (B) and fish (F) as represented on the venn diagram.



a) Given that those who hate beef and those who eat beef only are equal, find the value of K. (3mks)

b) Find the chance of selecting a candidate who prefers none of the dishes served. (2mks)

23a) Solve for W: $-2(W+3) + 4(W-1) = 0$ (3mks)

b) Daniel is 58 years old and Joyce is 14 years old. In how many years time will Daniel be thrice as old as Joyce. (2mks)

24. Catherine was sent to a grocery to buy

3kg of sugar at sh 750 each quarter a kilogram
500g of meat at sh 10,000 a kilogram
3 loaves of bread at sh 16500.
1.5 litres of milk at 3000 each litre.
If she paid sh 50,000, how much was her change. (5 mks)

25. The number of right angles in regular polygon is 20.
a) Find the name of the polygon. (2mks)

b) Calculate the size of each exterior angle of the polygon. (2mks)

26. Kasadha used 0.25 of his money to buy a textbook, $\frac{1}{2}$ of the remainder for pens and pencils and saved the rest.

a) What fraction is spent on pens and pencils? (2mks)

b) Given that he saved sh.36,000, find the amount of money that he had before. (3mks).

27. The table shows the bus schedule from A to C.

A	Arrival	
	Departure	1130hrs
B	Arrival	1200hrs
	Departure	12 20hrs
C	Arrival	13 30hrs
	Departure	

a) How long did the bus take to reach town C. (2mks)

b) Find the total time taken by the bus on all the stopovers. (1mk)

c) Given that **C** is 120km away from **A**, calculate the bus's average speed for the whole journey. (2mks)

28.a) Solve for n.

$a^{2n} \div a^{n} = a^{3}$ (2mks)

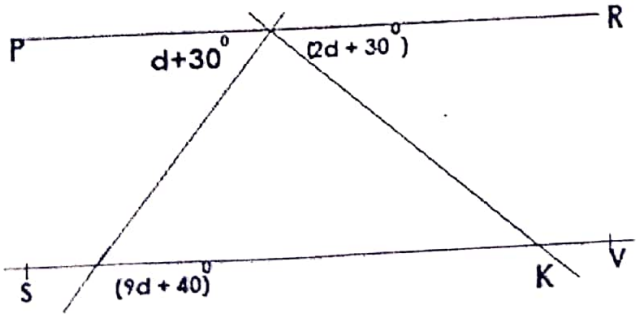
b) Express 64 using powers of 4. (2mks)

29. a) Find the area of the shaded region. (3mks)

b) Workout the perimeter of the shape above. (3mks)

30. The average mass of 5 boys is 64 kg. When other 2 boys whose mass is 50kg each. Join the group find the average mass of all the boys in the group. (4mks)

31. **PR** is parallel to **SV**.



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

b) Workout the size of angle marked K. (2mks)

32. At one school, the office is 50m away on a bearing of 110^0 from the kitchen and the Library is 70m from the office a bearing of 210^0.
a) Draw a sketch diagram for the 3 places. (1mk)

b) Using a scale of 1cm to represent 10m, draw an accurate diagram to show the location of the three places. (3mks)

c) Find the bearing of the Kitchen from the Library.

End