P.L.E 2024 BLUEPRINT ITEM

MATHEMATICS

Time allowed: 2 Hours 15 Minutes

Random No.						Person No.		

Candidate's Name .....

Candidate's Signature .....

District Name.....

Read the following instructions carefully:

1. This paper has **two Sections: A** and **B**.
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. All answers must be done using a blue or black ball-point pen or fountain pen.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	**Marks**	**EXRS' NO.**
01 -05		
06 - 10		
11 - 15		
16 - 20		
21 - 22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

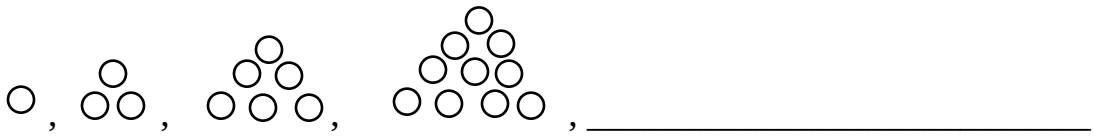
SECCTION A (40 Marks)

Answer all questions in this Section.

Questions 1-20 carry two marks each.

1. Work out: 946 + 52

2. Use dots to complete the pattern below.



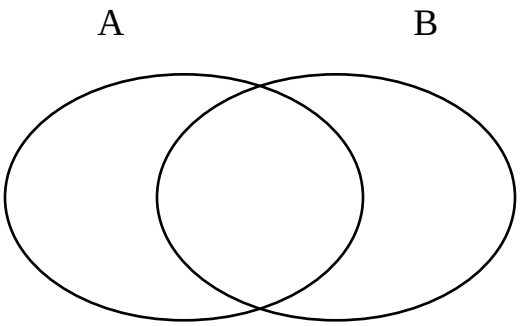
3. How many $2\frac{1}{2}$ kg of sugar can Wambya get from a 20kg bag of sugar?

4. Round off 26.98 to the nearest tenth.

5. The supplementary angle of $120^0 - m$ is 80^0. Find the value of M.

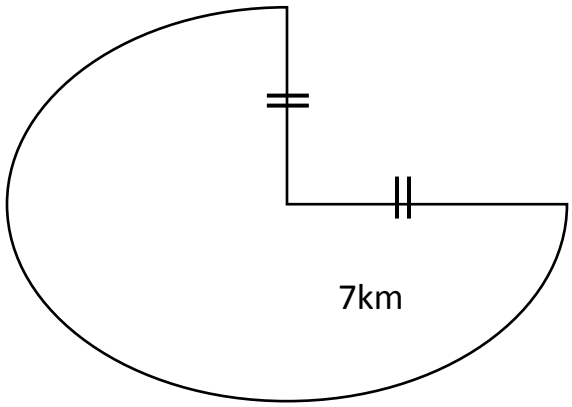
6. Find the sum of prime numbers between 80 and 90.

7. Shade either set A or B in the diagram below.



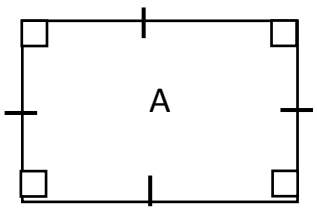
8. Using a pair of compasses, a ruler and a sharp pencil. Contract an angle of 105^0.

9. Amongin moved around the figure below once. What distance did she cover? (Use pi as $\frac{22}{7}$)

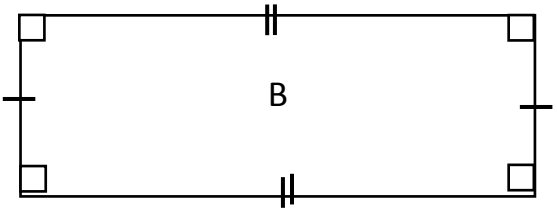


10. The number of goats in the form increased in the ratio 5:2 to 50 goats. How many goats were in the farm before the number increased?

11. Square A and Rectangle B have the same perimeter.



10M

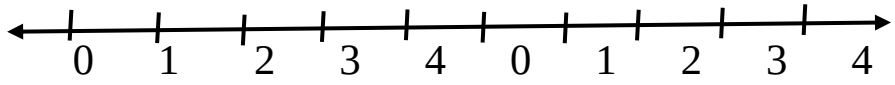


12M

Find width (W) of figure B.

12. A boda – boda man covered a distance of 120 km in 40 nminutes. Calculate his speed in km/h.

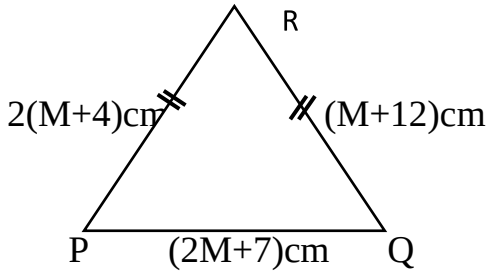
13. Work out. 2+4 = ____ (finite 5) using the number line below



14. Primary seven pupils slept from 10:00pm to 5:40 a.m for how long did they sleep?

15. Work out : (25 ÷ 9) + (29 ÷ 9)

16. Use triangle PQR below to find the value of M.



17. Kenneth walked a total distance of 36 km in 3 days walking 2 more kilometers the previous day. How many kilometers did he in move the third day?

18. The exchange rate of united states dollars to Uganda shillings is,
USD 1 represents Ug sh. 3800.

Convert Ugsh2,280,000 to united states dollars.

19. Find the value of 2 in the numeral 36.042.

20. A cylindrical tank was $\frac{2}{3}$ full of water, when Nantume sold a twenty litres Jerrycan, it became $\frac{1}{2}$ full. How many litres does the tank hold when it is completely full?

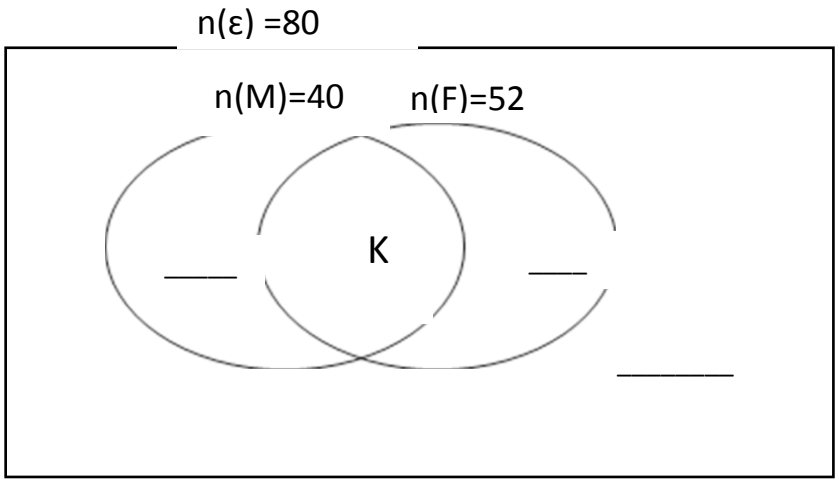
SECTION B (60 MARKS)

21.(a) Convert $\frac{1}{8}$ as a decimal fraction. (2 marks)

b) Use numeral 569.043 to find the sum of the value of 6 and the position of 3.

22.In a football team of 80 players. 40 like mean (m), 52 like fish (F), K players like both meat and fish while 2 players do not like any.

a) Complete the Venn diagram below.



b) How many players like only one type of sauce? (2marks)

23. The ratio of the perimeter to the length of a rectangle is 7:2 respectively. If its area is $48m^2$. Calculate its actual length and width. (5marks)

24. (a)Find the value of M: $M^2 + M^2 = 112_{\text{five.}}$ (3marks)

b) Write 4,012 in words. (1 mark)

25. Namakula bought the following items from a nearby market.

18 tomatoes at sh. 200 for every 2 tomatoes.

4 books at sh. 1500 per book.

$2\frac{1}{2}$kg of onions at sh. 2000 a kg.

a) Calculate her total expenditure. (4marks)

b) If she remained with sh. 7,200, how much money did she have at first? (1mark)

26. Solve for d: $\frac{d+6}{3} = \frac{d+2}{2}$

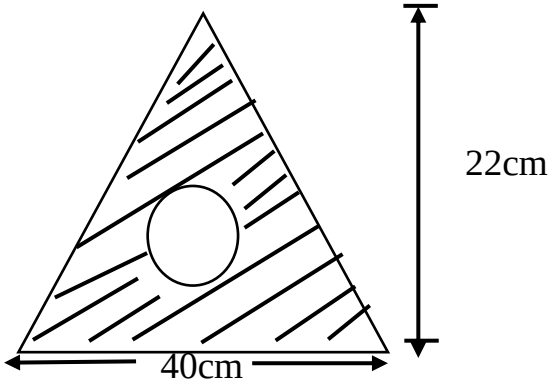
b) Compare $\frac{3}{4}$ and $\frac{2}{5}$ using <, > or = (2marks)

27. Using a pair of compasses, a ruler and a sharp pencil.

a) Construct a rhombus LAND where LA = 5cm and angle LAN = 135^0 (4marks)

b) Drop a perpendicular line from point N to meet line LA at point X. (1mark)

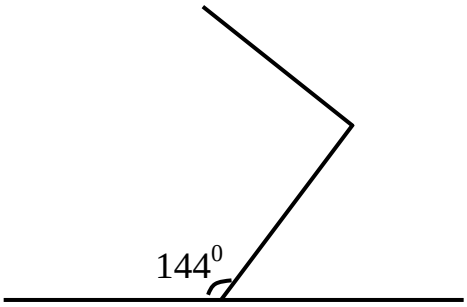
28. The area of the shaded part in the diagram below is $286cm^2$. Find the radius of the inner figure. (5marks)



29. Amiisi spends $\frac{1}{4}$ of his salary on food, $\frac{1}{3}$ on school fees and the rest on medical.

Using a pair of compasses and a protractor draw a pie chart of radius 4.0cm showing the above information. (5marks)

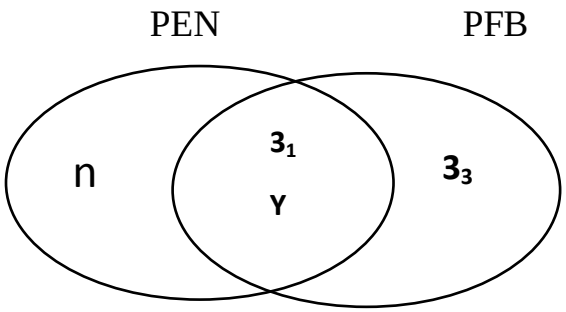
30. The regular polygon below is incomplete. Use it to answer questions that follow.



a) Name the regular polygon that can be formed if the diagram is complete. (3marks)

b) Calculate its interior angle sum. (2marks)

31. Use the Venn diagram below to answer questions that follow.



If the LCM and HCF of PFN and PFB is 54 and 9 respectively.

a) Find the value of

i. Y (2marks)

ii.N (2marks)

b) Find the value of,

i.N

ii.B (1mark)

32. The time table below shows morning and evening lessons for a primary seven class term one 2024.

Time /date	**6: 00am – 7:00am**	**7:10 pm – 8:30pm**
Monday	Mathematics	Social studies
Tuesday	English	Science
Wednesday	Mathematics	Social studies
Thursday	English	Science
Friday	Mathematics	Social studies
Saturday	English	Science

a) At what time do morning lessons begin in a 24 hour clock system? (1mark)

b) What is the duration for evening lesson? (2marks)

c) If after every lesson a teacher signs sh 20,000. How much money can a mathematics teacher get in morning and evening lessons in a week? (1mark)

d) How many times does science teacher teach primary seven class during morning and evening lesson in a week? (1mark)

End