BMMK EXAMINATION BOARD

PLE MOCK EXAMINATION, 2024

MATHEMATICS

TIME ALLOWED: 2HRS 30 MINUTES

Knowledge is the Best Weapon

	EMIS No..						PSersonal No.		
INDEX NO.									

CANDIDATE'S NAME: _____

CANDIDATE'S SIGNATURE: _____

SCHOOL NAME: _____

SUB-COUNTY/DIVISION: _____

Read the following instructions carefully.

1. This paper has two sections; **A** and **B**
2. Section **B** has 15 questions (60marks)
3. Answer **ALL** questions in section **A** and Section **B.** answer must be written in the Space provided.
4. All answers must be written using a blue Or black ball-point pen or ink. Only diagrams may be done in pencil.
5. Unnecessary alteration of work may lead to loss of marks
6. Any hand writing that cannot easily be read may lead to loss of marks

FOR EXAMINERS' USE ONLY		
QN.NO	MARKS	SIGN
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

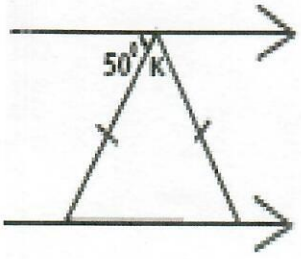
SECTION A (40MARKS)

1. Add 7+ 48

2. Write XCVII in Hindu Arabic numerals

3. James walked 6km in 15 minutes. Calculate his Speed in km/hr.

4. Find the value of angle marked k



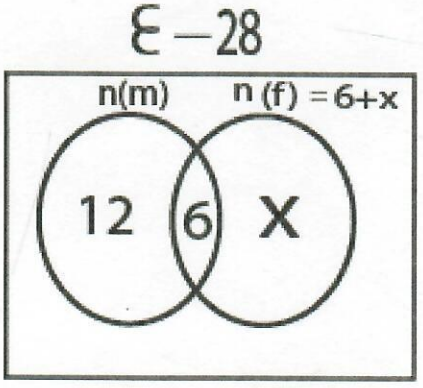
5. Workout: $5° + 6^1 \times 6^0$

6. Round off 69.542 to the nearest whole number.

7. $(X + 30°)$ and $(X - 60°)$ are supplementary angles. Find the value of x

8. Workout - 4 −+6 using a Number line below

9. Use the Venn diagram to:



find the value of x

10. Work out 3 – 6 =_____ (finite 7)

11. The average age of 2 boys is 14 years, One of them is 13 years old. How old is the second one?

12. Given that a =1, b =2 and c =3.
Find the value of a + b +c (a + b + c)

13. Solve the inequality -2y<6

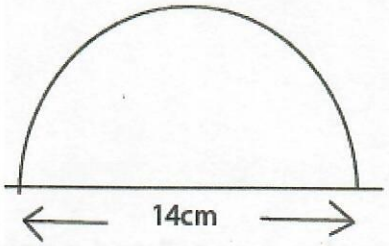
14. By selling a dozen of books at sh. 8400 a trader makes a Profit of sh.2400. How much money did the trader pay for each book?

15. Express 567400 in Standard form

16. Using a ruler, a pencil and a pair of compass only, construct an angle of 120°

17. Solve 3 (P+1) - (P+2) = 9

18. Find the circumference of the figure below. (Take $\pi = {}^{22}/_{7}$)



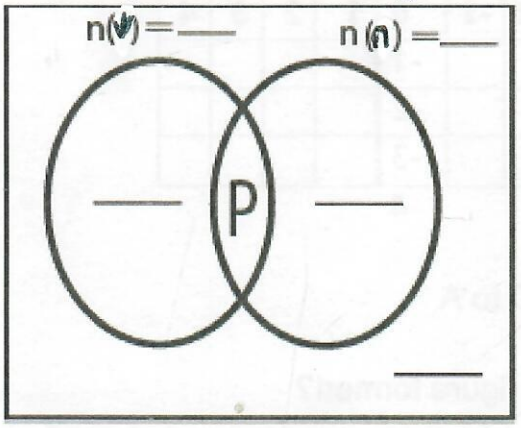
19. Mugisha deposited sh. 180,000 in a bank for 2 ½ years at an interest rate of 2% per year. Calculate her simple Interest after that time.

20. Express 0 .75 as a ratio in its lowest term.

SECTION B

21. In a class of 160 pupils, 65 like volley ball only, 55 like football only, 25 like neither of the two games while P like both games.

a) Use the information to complete the venn diagram below (3mks)

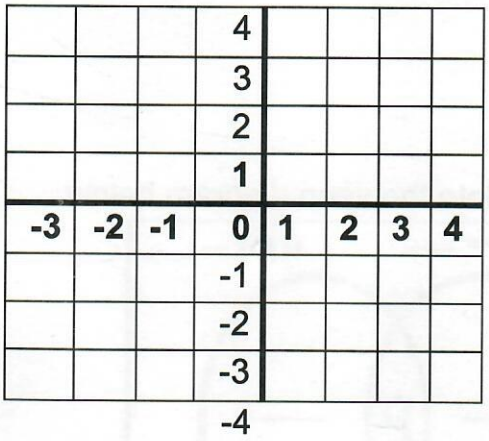


b) Find P (2mks)

c) Find the probability of those who like only one game to be the Captain (1 mk)

22. Sadic bought a tray of eggs at shs. 500 per egg on his way 6 eggs broke and he sold the remaining eggs at sh. 600 per egg. Calculate the percentage loss. (3mks)

23. Plot the given points on the grid below; A (-2,-2) B (+4, -2) C (+4,+2) D(0,+2) (4mks)



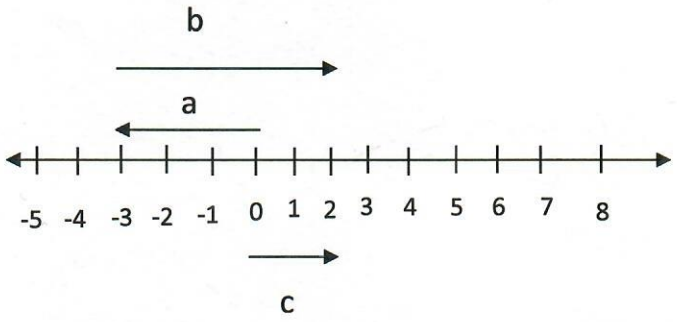
b) Join the points A to B to C to D to A (1mk)

c) What special name is given to figure formed? (1mk)

24 a) Express 20% as a fraction (2mks)

b) By selling a shirt at sh. 32000, Musa realized a profit of sh. 1800. How much did Musa buy the shirt? (2mks)

25. Study the number line below and use it to answer the questions that follow.



a) Write the integers of (1mk)

a) =
b) =
c) =

b) Write the mathematical statement for the number line above (2mks)

26. Study the table below and use it answer the questions that follow.

Marks	50%	60%	70%	40%	90%	80%
Pupils	4	6	3	1	2	4

a) Find the range of marks (2mks)

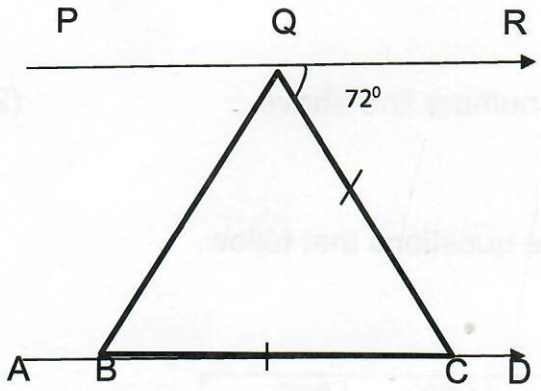
b) How many pupils scored above 70% (1mk)

c) How many pupils were in class (2mks)

27. a) Work out $\frac{0.2 \times 0.4}{0.8}$ (3mks)

b). Add 0.71 + 0.741 (2mks)

28. In the diagram below PR is parallel to AD and angle RQC =72°



i) Find the size of angle CQB
(2mks)

ii) Find the size of angle BQP (2mks)

29. Solve the following equations.

a) $2m + 4 = 16$ (2mks)

b) $2(m+1) = 4$ (3mks)

30. A man spends 25% of his monthly salary on food, $^1/_3$ of the remainder on rent and the rest on others. If he spends sh. 200,000 on others.

a) Find the fraction of his monthly salary he spends on others (4mks)

b) Calculate his monthly salary (2mks)

31. A mother is 27 years older than the daughter 6 years ago, their total age was 45 years.

a) How old is the mother now? (4mks)

b) How old was the daughter 6 years ago (2mks)

32. Using a ruler, a pencil and a pair of compasses only construct a triangle ABC, where AB = 6cm angle BAC =120° and angle ABC = 30° (4mks)

b) Measure length BC. (1mrk)