

TEL:0782171915

0743141290



0757999162

MANAGEMENT

THE **PEARL** EXAMINATIONS BOARD 2025
KAMAPALA SCHOOLS

2025

MOCK

MATHEMATICS

Time Allowed: 2½hrs

Candidate's Name:

Candidate's School:

District Name:.....

Index No.:

Read the following instructions carefully.

1. Do not open the booklet until you are told to do so.
2. This paper has got **two** sections: **A** and **B**.
3. Section **A** has **20** questions (**40marks**) and Section **B** has **12** questions (**60mks**)
4. Answer **ALL** questions. All answers to both sections **A** and **B MUST** be written in the spaces provided.
5. **All** answers must be written using a **blue** or **black** ball point pen or **ink**. Diagrams should be drawn in pencil.
6. **Un necessary** alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTION A		Total (%)
SECTION B		

SECTION A (40 MARKS)

1. **Add:**

$$\begin{array}{r} 1 \quad 2 \quad 3 \\ + \quad 7 \quad 7 \\ \hline \end{array}$$

2. The cost of **6** exercise books is **Shs. 2400**. Find the cost of **5** similar exercise books.

3. Find the average of **2, 1, $y + 3$, $4y$** and **4**.

4. What number can be divided by either **6** or **8** leaving **1** as a remainder?

5. Write in numerals. **"Three hundred three thousand, three hundred"**.

.....

6. In a bag, there are **6** blue balls and **7** white balls. What is the probability of picking a white ball?

7. Find the **G.C.D** of **8** and **12**.

8. Ashley shared **2727** cabbages among **9** visitors. How many cabbages did each visitor get?

9. Use a ruler and a pair of compasses only, construct an angle of **30°**.

10. Solve: $2x^2 = 50$

11. What is the next number in the series?

1, 4, 9, 16, _____

12. Given that set $B = \{a, b, c, d\}$ and
set $C = \{0, 2, 4, 6\}$

Find $n(B \cup C)$

13. In a class of **40** pupils, 16 are boys, what percentage of the class are girls?

14. Express **40m/sec as km/hr.**

15. A right – angled trapezium has its opposite parallel sides **15cm** and **10cm** and a height of **8cm**. Find its area.

16. Change **433_{six}** to the day – today base.

17. Work out: $5 - 6 = \underline{\hspace{2cm}}$ (mode 8)

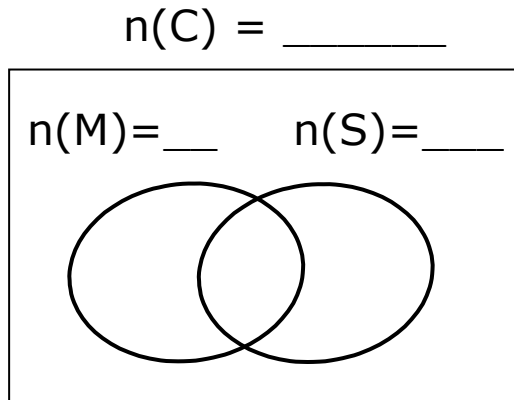
18. If **a = 2**, **b = 3** and **c = 5**, find the value of **$3a + b + c$**

19. **Simplify:** $-8 - -2$

20. Increase **Sh. 10,000** in the ratio **2:5**.

SECTION B (60 MARKS)

21. In a class of **20** pupils, **12** like Maths and **16** like Science, x pupils like both subjects.
- a) Represent the above information on a Venn diagram below.



- b) Find the value of x .

(2mks
(2mks)

- c) How many pupils like only one subject?

(1mk)

22. **Kwagala scored the following marks in End of year examinations.**

Maths 90, English 80, Science 80, S.ST 70, French 60

a) Find the following

i) Range

(1mk)

ii) median

(2mks)

iii) modal frequency

(1mk)

iv) Average mark

(2mks)

23. Kisitu went to Mamu super market and bought the following items.

- 4kg of sugar at 1,100/= per kg
- 2½ kg of salt at 600/- per kg
- 2 bars of soap at **800/=** per bar
- ½kg of ground nuts at **800/=** per kg

a) What was his total expenditure. (4mks)

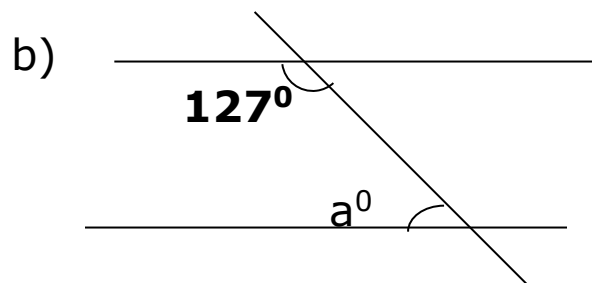
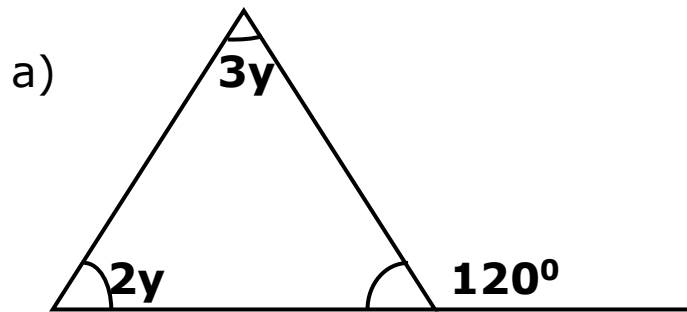
b) Suppose he went with **14,500/=**, how much money did he remain with? (1mk)

24.a) **Work out:** $\frac{0.045 \times 0.2}{0.03 \times 5}$ (3mks)

b) **Simplify:** $\frac{a^5 \times a^3}{a^4}$ (2mks)

25. Find the value of the un known angles.

(3mks)



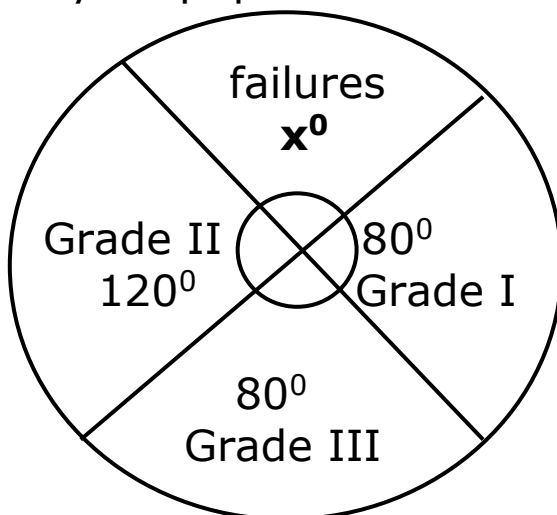
(2mks)

26. The probability that Jose picks a red colour is $\frac{1}{3}$

a) What is the probability that Jose picks another colour?
(2mks)

b) Toss a dice once. What is the probability that an odd number shows up?
(2mks)

27. The pie chart below shows the different grades obtained by 72 pupils in P.L.E 1998.



a) Find the value of x . (2mks)

b) How many pupils got division one?
(2mks)

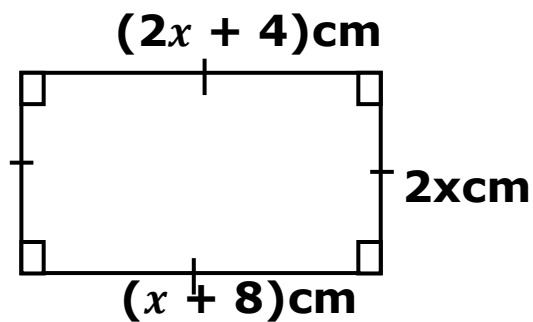
c) How many pupils failed? (2mks)

28. Two bells ring together at **40** minutes and **30** minutes respectively. If they ring at 8:00am, when will they ring together again? (4mks)

29.a) Calculate the simple interest on **Sh, 8000** for **2** years at 10% per annum. (4mks)

b) Calculate the amount obtained thereafter. (1mk)

30. Study the figure below and answer the questions that follow.



a) Find the;
i) the value of x

ii) the perimeter of the figure.
(2mks)

iii) the area of the figure. (2mks)

31. A mother is **3** times as older as her daughter. Their total age is **48** years. How old is each of them? (4mks)

32. The table below shows results of Easter football matches played by;

i) SC Villa
FC

ii) Express FC

iii) KCCA

The points for Matches won = **3,**

The points for matches draw = **1**,

Zero is awarded for any matches lost.

	Number of matches		
Club	Won	Drawn	Lost
Sc Villa	3	0	2
Express FC	3	1	1
KCCA FC	2	2	1

a) How many matches did **KCCA FC** win?
(1mk)

b) How many points did each team get?
(2mks)

c) Which team emerged the overall winners?
(2mks)

"You are a Victor not a victim"