



THE REPUBLIC OF UGANDA

SERERE DISTRICT ACADEMIC BOARD

SPECIAL PRE-PRIMARY LEAVING EXAMINATION

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random Number					Personal Number		

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instructions carefully:

1. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **12** printed pages.
2. Answer all questions. All working for both sections **A** and **B** must be shown in the spaces provided.
3. All answers must be written using a **blue** or **black** ball point pen or **ink**. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
5. No calculators are allowed in the examination room
6. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
7. Do not fill anything in the table indicated: "**For Examiners' use only**" and boxes inside the question paper.

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

SECTION A: 40 MARKS

Answer **all** questions in this section
Questions **1** to **20** carry **two** marks each

1. Workout: $24 \div 6$

2. Write in figures: Forty two thousand, fourteen.

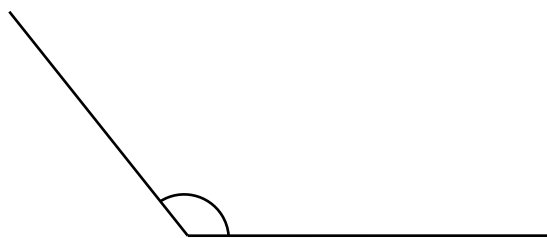
3. Given that $A = \{0, 2, 4, 6, 8\}$, $T = \{4, 6, 8, 9\}$ and $(A \cup T)' = \{3\}$
Find $(A \cap T)'$

4. In a class, 25% of the pupils are boys. Find the ratio of girls to boys.

5. Round off the 34.96 to the nearest tenth.



6. Using a ruler and a pair of compasses only, divide the marked angle into two congruent angles.



7. Simplify: $b - 3d - 2b - d$
8. Find the next number in the sequence:
3 , 4 , 7 , 13 , 23 ,
9. A girl takes 21 minutes to mop a single room. She starts this job at 11:47 a.m. At what time will she finish mopping three rooms?

10. Okidi had sh 12000. He spent $\frac{2}{5}$ of it on books and sh 2000 on pens. How much money did he remain with?

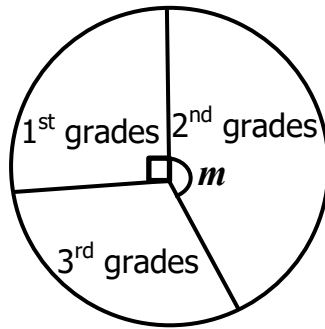


11. Find the largest number that divides 21 and 27 leaving 3 as a remainder.

12. Convert $2\frac{1}{8}$ metres to millimetres.

13. Use distributive property to work out: $(43 \div 7) + (13 \div 7)$

14. The pie chart below shows the grades obtained by 60 pupils in a class. Use it to answer the question that follows.



If 20 pupils obtained 3rd grade, find the value of m .

15. Workout: $3 + 2 \div 0.25$

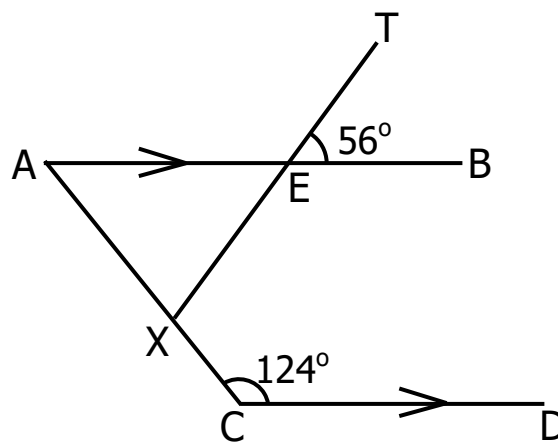


16. A man had a bundle of five thousand shillings notes numbered consecutively from AP 3489679 to AP 3489728. How much money did he have altogether?

17. Solve: $-2(a + 1) \geq 6$

18. Today is Tuesday. What day of the week will it be 33 days from today?

19. In the figure below, line AB is parallel to line CD , angle $TEB = 56^\circ$ and angle $XCD = 124^\circ$. Study the figure and use it to answer the question that follows.



Find the size of angle AXE .

20. How many seconds will a 5 metre long truck take to cross a 125 metre bridge at an average speed of 5 metres per second?

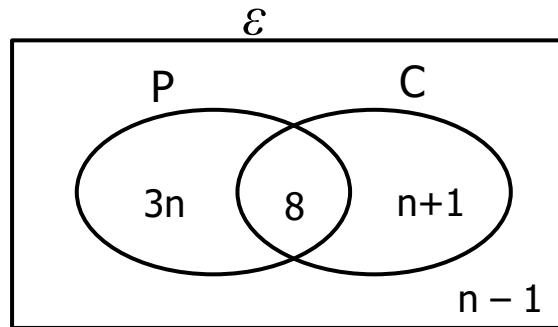


SECTION B: 40 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets

21. In a family, members like Posho (P) and Cassava (C) as shown in the Venn diagram below.



Given that 11 members of that family do not like cassava.

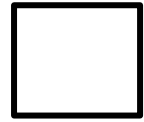
Find:

- (i) the value of n . (02 marks)

- (ii) the probability that a family member picked at random likes cassava but not posho. (03 marks)

22. (a) Work out: $1011_{\text{two}} \times 11_{\text{two}}$ (02 marks)

- (b) Given that $1m2_{\text{four}} = 1010_{\text{three}}$. Find the unknown digit m .
(03 marks)



23. Express $0.144\ldots$ as a simplified fraction.
(04 marks)

24. A trader bought three trays of eggs at sh 350 an egg. On the way back to his shop, 4 eggs got broken from each tray. He sold all the remaining eggs at sh. 500 each.

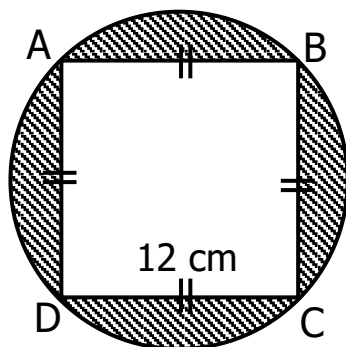
Given that a tray of eggs holds 30 eggs.

- (a) How much money did he spend on eggs?
(02 marks)

- (b) Calculate the profit the trader made after selling all the eggs.
(04 marks)



25. In the figure below, **ABCD** is a square enclosed in a circle. The area of the shaded part is 10cm^2 and length **DC** = 12 cm. Use it to answer questions that follow.



- (a) Find the area of the square **ABCD**. (02 marks)

- (b) Find the length of diagonal **AC**. (Use $\pi = \frac{22}{7}$) (04 marks)

26. The exterior angle of a regular polygon is 140° less than its interior angle. Find the sum of all its interior angles. (05 marks)



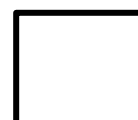
27. The table below shows how a businesswoman buys and sells different types of crops in her shop. Use it to answer questions that follow.

Crop	Buying rate	Selling rate
1 kg of maize	sh 1200	sh 1250
1 kg of beans	sh 3500	sh 3750
1 kg of sorghum	sh 1750	sh 1800

- (a) Gerald sold 80 kg of sorghum to the businesswoman. How much money did he get? *(02 marks)*

- (b) Ann took 125 kg of maize to the businesswoman's shop in the exchange for beans. Find in kilograms, the mass of beans she got from the shop. *(04 marks)*

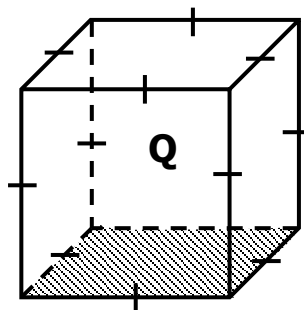
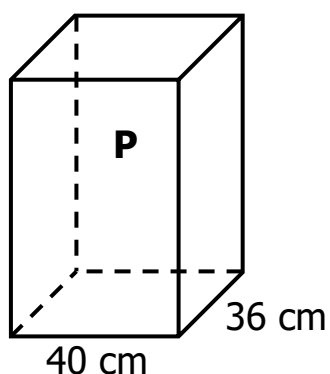
28. Adam is thrice as old as Eva. Their total age in 8 years' time will be 64 years. How old will Adam be then? *(04 marks)*



29. Using a ruler, a pencil and a pair of compasses only, construct a parallelogram **BEST** where **ES** = 7.5 cm, **BES** = 45° and diagonal **BS** = 5.5 cm. Drop a perpendicular from point **B** to meet **ES** at **K**.

(05 marks)

30. Below are containers **P** and **Q** that hold the same amount of water when completely full. The area of the shaded part is 3600 cm^2 . Use them to answer questions that follow.



Find the height of water in tank **P** when a sixth full.

(05 marks)

31. Below is a list of marks scored by pupils in a test. Use it to answer the question that follows.

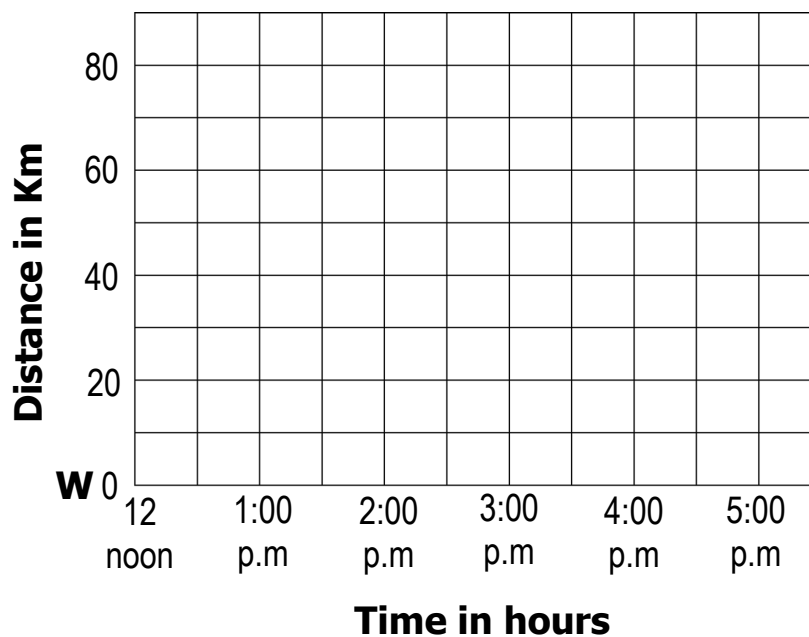
80 , k , 80 , 83 , 83 , k , 90 , 80 , 83 , 83

If the mean mark of the pupils was 85, find the range of marks.

(05 marks)

32. A man left village **W** for village **Y** via village **X**. He was driving at an average speed of 20 km/h for 2 hours. He rested for 30 minutes at **X** and then continued to **Y** which is 40 km away at an average speed of 16 km/h where he arrived at 5:00 p.m.

- (a) Represent the man's journey on the graph below. *(03 marks)*



- (b) At what time did the man leave village **W**? *(01 mark)*

