KABALE DIOCESE CATHOLIC PRIMARY SCHOOLS

PRE- MOCK 2024

MATHEMATICS

Time allowed: 2 hours 30 minutes.

Random No.						Personal No.		

Candidate's Name:.....

Candidate's Signature.....

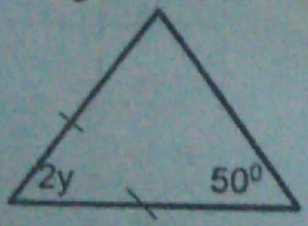
District No. | | | | |

Read the following instructions carefully:

1. This paper is made up of two sections: **A** and **B**.
2. Section **A** has **20** questions **(40 Marks)**
3. Section **B** has **12** questions **(60 Marks)**
4. Answer **ALL** questions in both sections **A** and **B**.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINER'S USE ONLY		
QN. No	MARKS	SIGN
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

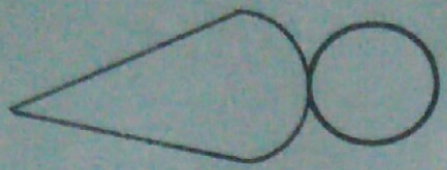
SECTION .A. (40 MARKS)

1.	Divide; 18 ÷ 3	2.	What number has been expanded to get $(3x10^4) + (1x10^2) + (5x10^1) + (4x10^0)$?
3.	Write the value of the underlined digit in the numeral 81.3<u>5</u>.	4.	Given that set M has 32 subsets, find n(M).
5.	Add; 3 + 5 = _____ (finite 6)	6.	Express 48 as a product of its prime factors.
7.	The mean of 8, 6, 2p and 10 is 7. Find the value of p.	8.	The ratio of hens to ducks in a poultry farm is 3:4 respectively. If there are 15 hens, how many ducks are there?
9.	Work out the value of the unknown in the figure below. 	10.	Simplify; 3p + 2q – p – 3q

Work out (27 x 6) + (6 x 53) using distributive property.

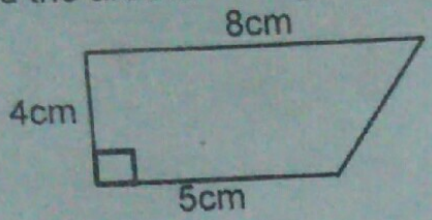
12. Solve for y; 3y - 6 = 81

3. Name the shape whose net is drawn below.



14. Moses has 15 more cows than his brother Amos on the farm. If they both have 41 cows, how many cows does each have?

15. Find the area of the figure above.



16. 8 boys can slash the compound in 6 days, how many boys are needed to do the same work in 4 days?

17. Given that P = 8, Q = 4 and R = 2, find the value of PR ÷ Q.

18. Find the median of 6, 3, 0, 4, 9 and 7.

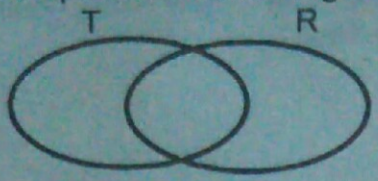
19. Work out; $^{-}4 + {}^{-}6$

20. The average age of 4 boys is 10 years, find their total age.

SECTION .B. (60 MARKS)

21. Given the sets; T = (odd numbers less than 10), R = (whole numbers less than 6)

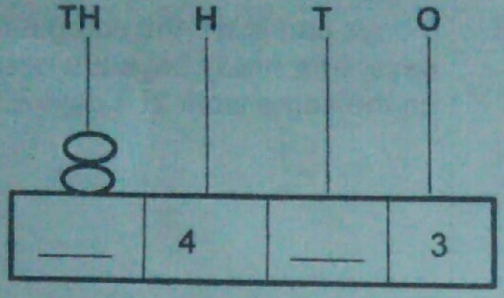
(a) Complete the venn diagram below.



(b) Find $n(T \cap R)$

(04 marks)

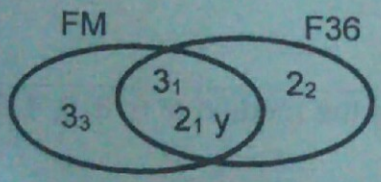
22. (a) Complete the abacus below.



(b) Expand the number represented on the abacus using place values.

(4 Marks)

23. The venn diagram below shows prime factors of M and 36. Use it to answer questions that follow.



(a) Work out the value of;
(i) y

(b) Find the LCM of M and 36.

(ii) M

(06 marks)

24. (a) A car uses 5 litres of petrol to cover 30km. How far can it go with 9 litres of petrol?

(b) If one litre of petrol costs sh. 5500, how much money is needed to buy 8 litres of petrol?

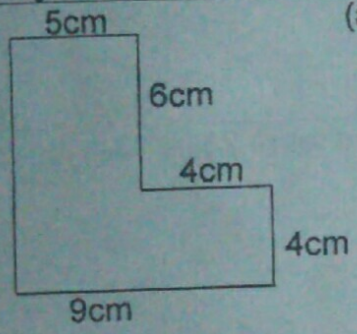
(05 marks)

25. (a) Using a pencil, a ruler and a pair of compasses only, construct triangle TIN where line TI = 6cm, angle NTI = 45^0 and angle TIN = 90^0

(b) Measure the length of NT

(05 marks)

26. **Study the combined figure below and answer questions about it.**



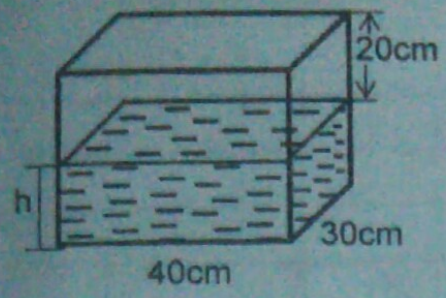
(a) Calculate its area.

(b) Work out the total distance around the figure above.

(05 marks)

27.	(a) Change 08:35a.m to 24hour clock system.	(b)	A lesson started at 4:15p.m. and took 40 minutes. Show the ending time of the lesson on the clockface below.  (05 Marks)
28.	(a) Find the least number of books which can be distributed to either 8 or 12 pupils leaving a remainder of 5 books.	(b)	Work out the Greatest Common factor of 16 and 20. (04 marks)
29.	(a) Change 131_{four} to decimal base.	(b)	Solve for n; $23_n = 13_{ten}$

30. The rectangular tank below is containing water. Use it to answer questions about it.



(a) Find the value of h if the water has a volume of $48000cm^3$

(b) How many litres are needed to fill the tank to its full capacity?

(05 marks)

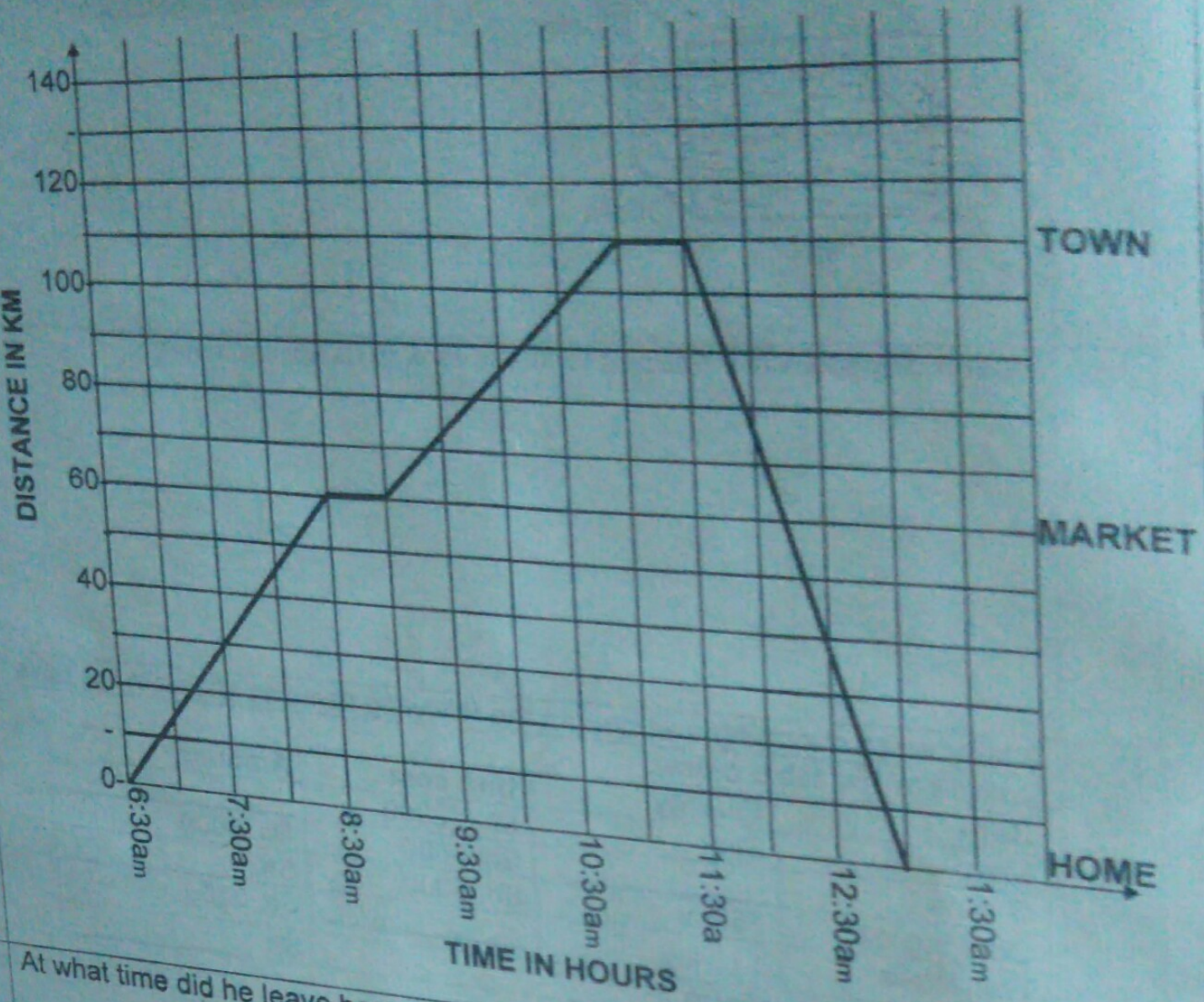
31. A lady went shopping and bought the following items as shown in the table below.

(a) Complete the table below.

Item	Quality	Unit cost	Amount
Meat	2kg	Sh. 12000	_____
G.nuts	_____	Sh. 6000	Sh. 3000
Cooking oil	750ml	Sh. 6000	Sh. _____
Tomatoes	$1\frac{1}{2}$ kg	_____	Sh. 3000
Total expenditure			Sh. _____

(b) If she was given a change of sh. 2000, how much money did she have at first?

The travel graph below shows the motorist's journey from home to town via the market. Study it carefully and use it to answer questions that follow.



(a) At what time did he leave home?

(b) How far is the town from home?

(c) Calculate the average speed of the motorist for the whole journey while travelling