

GREENHILL PRIMARY SCHOOL BUWAATE

INTERNAL PRIMARY LEAVING EXAMINATION MOCK

2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No:

Random No.						Personal No.		

Candidate's name:

Candidate's signature:

District:

Read the following instructions carefully

For Examiner's use only	
A	
B	
TOTAL	

1. This paper has two Sections: A and B.
2. Section A has 20 answer questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer ALL questions. Answers to both sections must be written in the spaces provided.
5. All answers must be written using blue ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the box indicated for examiner's use only.

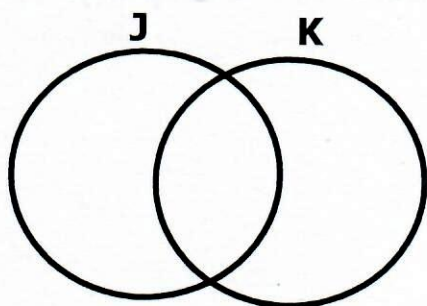
SECTION A:

1. Workout: $2 \times 10 =$
2. Write 37 in Roman numerals.
3. Given that $y = 2^3 \times 5^2$, calculate the value of y .
4. Simplify: $-10 - -7$
5. The cost of 250 grammes of sugar is sh. 1500. How much is the cost of buying 2kg of sugar at the same rate?

6. If $11 = 2p+3$, find the value of P.

7. There are 32 girls and 48 boys in a class. Find the percentage of boys in the class.

8. On the Venn diagram below, shade $J \cap K$.



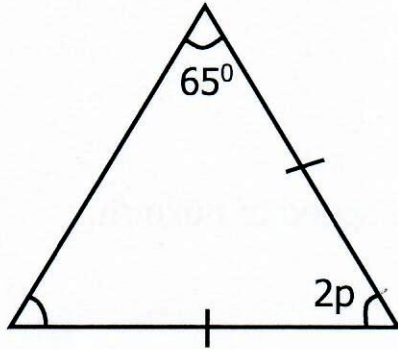
9. Write in figures; Nineteen thousand, four hundred eight.

10. The mean of $2x$, $x-3$ and $x+6$ is 13. Find the value of x .

11. Find the Highest Common Factor (HCF) of 12 and 18.
12. Write the solution set for $x+7>4$.
13. Workout $(183 \times 14) + (14 \times 17)$ using distributive property.
14. The total area of two surfaces of a cube is 50cm^2 . Find the length of each of its sides.

15. A baby slept at 11:20pm and woke up at 2:50a.m the next day. For how long did the baby sleep?

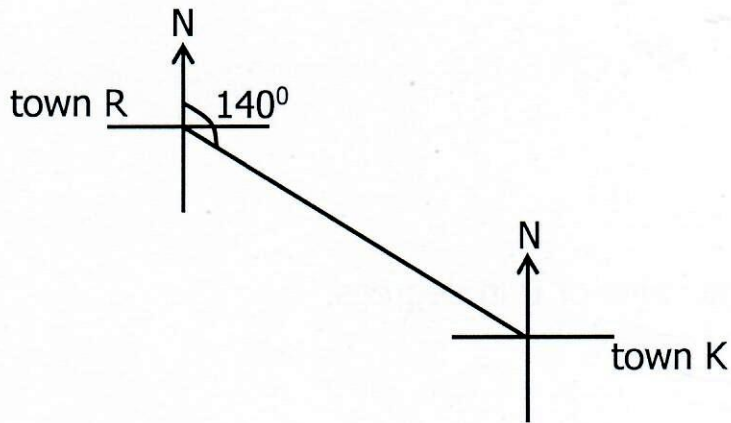
16. In the figure below, calculate the value of **P** in degrees.



17. Write 19800 in standard form.

18. Moses is the 10th boy in a line from either side. How many boys are in the line?

19. In the figure below, find the bearing of town **R** from town **K**.



20. Calculate the distance covered in 45 minutes at a speed of 80 km/h.

SECTION: B (60 MARKS)

21. The interior angle of a regular polygon is 36° more than the exterior angle.

(a) Find the size of the exterior angle. (3 marks)

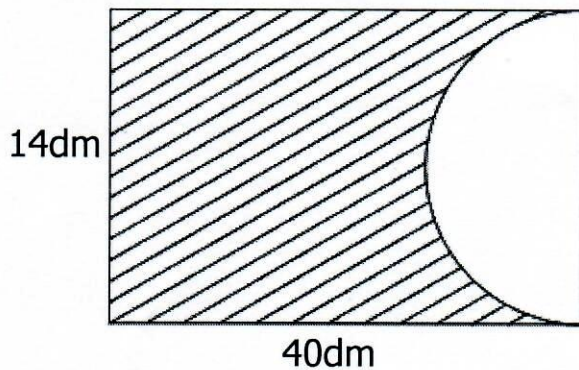
(b) Calculate its interior angle sum. (2 marks)

22. A container was $\frac{4}{5}$ full of milk. When 42 litres were removed, it remained $\frac{1}{3}$ full.

(a) Find its capacity when full. (3marks)

(b) If each litre of milk is sold for sh. 2000, how much money can a trader get if it is $\frac{1}{6}$ full of milk? (2marks)

23. Calculate the area of the shaded part in the diagram below. (take π as $\frac{22}{7}$) (5marks)



24. Robert is twice as old as Paula. In 6 years' time, their total age will be 42years.

(a) How old is each now? (3marks)

(b) What will be their total age in 10years' time? (2marks)

25. Using a ruler, a sharp pencil and a pair of compasses only, construct a rhombus EFGH in which diagonals $EG = 8\text{cm}$ and $FH = 6\text{cm}$. (4marks)

(b) If a cockroach moved round it once, what distance did it cover? (1mark)

26. The table below shows how Catherine bought items from a nearby supermarket. Study it carefully and answer questions that follow.

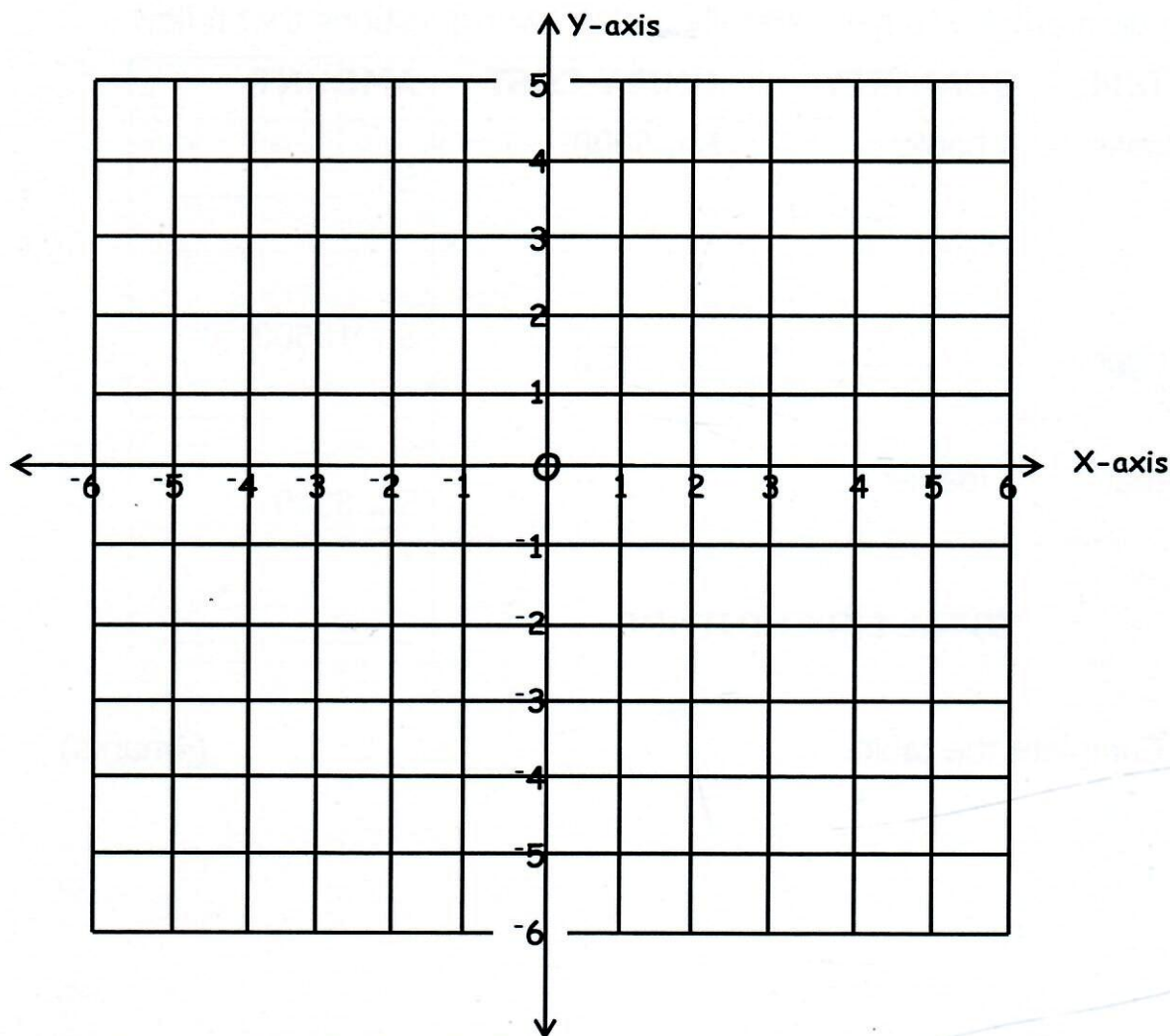
ITEM	QUANTITY	UNITY COST	AMOUNT
Books	4 books	Sh. 5000	Sh. _____
Sugar	_____kg	Sh. 5500	Sh. 16500
Bread	2 loaves	_____	Sh. 8000
TOTAL EXPENDITURE			_____

(a) Complete the table.

(4marks)

(b) If she was given a discount of sh. 500, how much did she pay? (1mark)

27. (a) On the grid below, plot $P(-2,0)$, $Q(0,2)$, $R(2,0)$ and $S(0,-5)$. (4marks)



- (b) Join P to Q , Q to R , R to S , S to P and name the figure formed. (1mark)

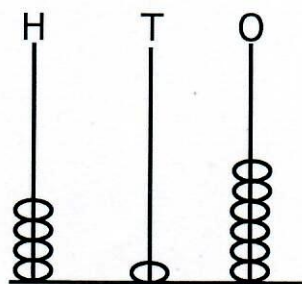
28. (a) Workout: (2marks)

$$\begin{array}{r} 1 \quad 0 \quad 0 \quad 1_{\text{two}} \\ - \quad \quad 1 \quad 1_{\text{two}} \\ \hline \end{array}$$

- (b) Convert 103_{five} to base four. (3marks)

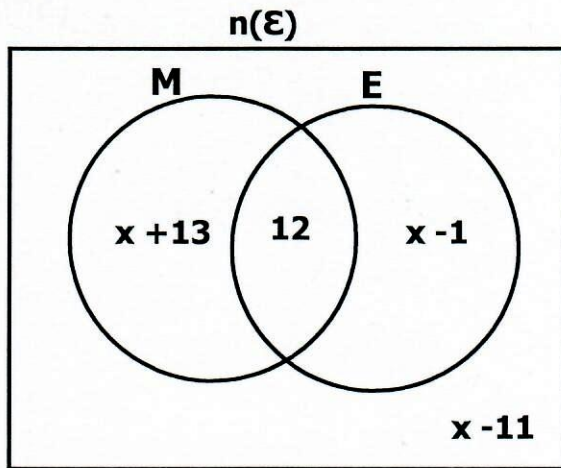
29. A family eats 36 pancakes in three consecutive days. One more pancake is eaten in the next day than the previous day. Find the number of pancakes eaten on each day. (5marks)

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



- (a) _____
Write the number represented on the above abacus. (2marks)
- (b) Expand the above number using powers of 10. (2marks)
- (c) Round off the number in (a) above to the nearest ten. (1mark)

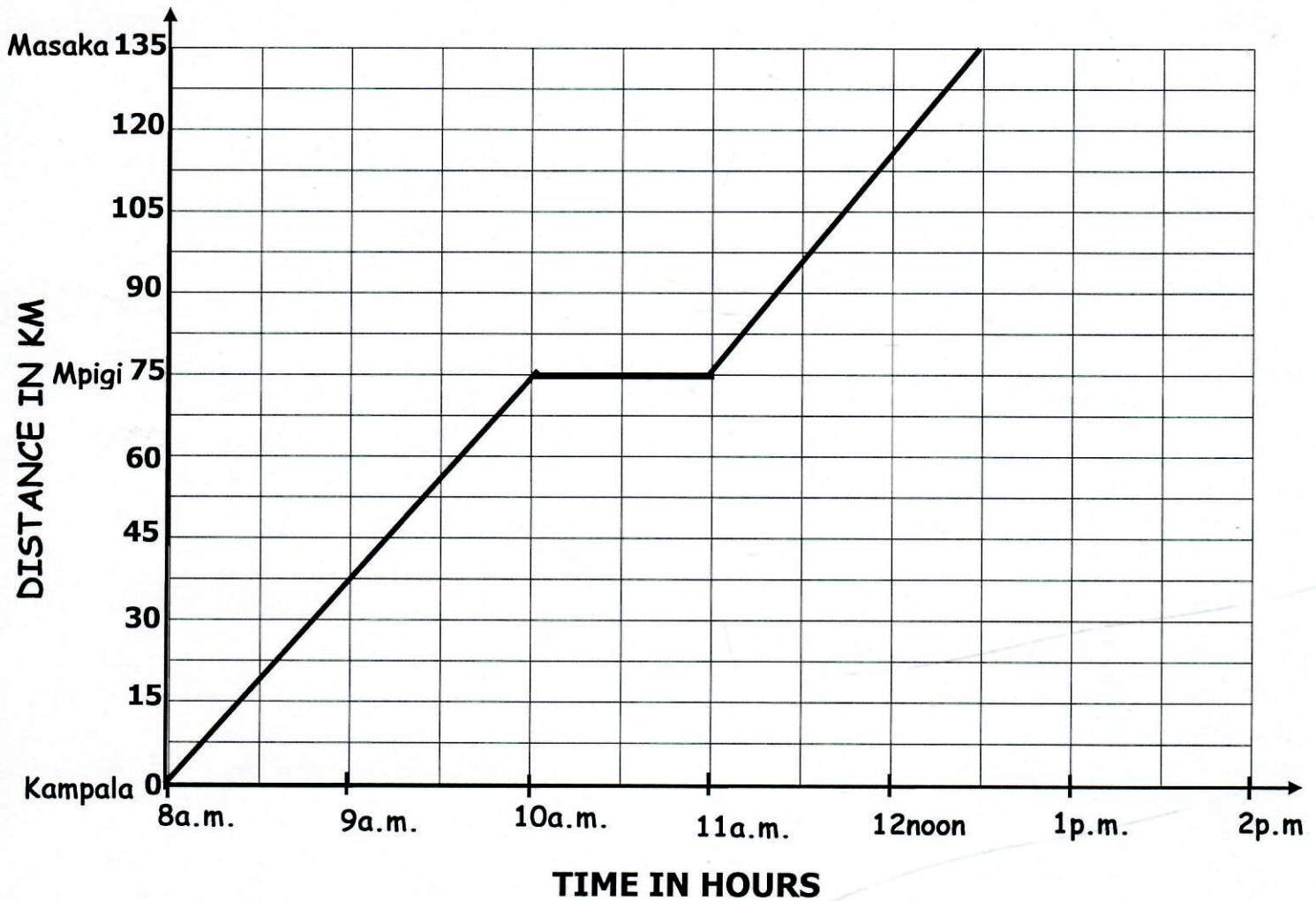
31. The Venn diagram below shows the pupils in a class who like Maths(M) and English(E). 40pupils like only one subject while 12 like both subjects.



- (a) Find the value of x . (3marks)

- (b) How many pupils are in the class? (2marks)

32. The graph below shows how a motorist drove from Kampala to Masaka via Mpigi. Study it carefully and answer questions that follow.



- (a) What is the scale on the horizontal axis? (1mark)
- (b) For how long did he rest? (1mark)
- (c) Calculate his average speed for the whole journey. (3marks)

***** END *****