KOLFRAM EDUCATIONAL SERVICES KAMPALA

MID-TERM I EXAMINATION 2023

PRIMARY SIX

MATHEMATICS

Time allowed: 2 hours 30 minutes

Name: _____

Stream: _____

FOR EXAMINER'S USE ONLY

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
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. 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 boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY		
Qn. No	**MARK**	**SIGN**
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

COMMENT TO THE CANDIDATE

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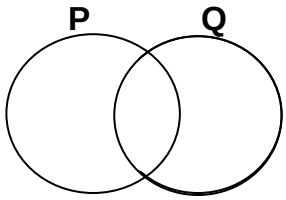
The best performing schools in Eastern Uganda "Shining to Change"

Turn over

SECTION A: (40 MARKS)

1. Work out:
$$\begin{array}{r} 46 \\ -\ 20 \\ \hline \\ \hline \end{array}$$

2. Shade **P** – **Q** in the diagram below.



3. Write 45600 in words.

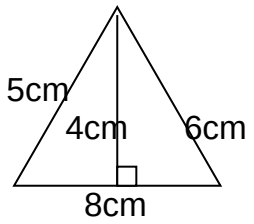
4. Divide 2424 by 6

5. Subtract ½ - ⅓

6. Given that represents 6 pupils, draw pictures to represent 48 pupils.

7. Simplify: $^{-}6 - {}^{-}4$

8. Find the area of the triangle below.



9. What is the next number in the sequence

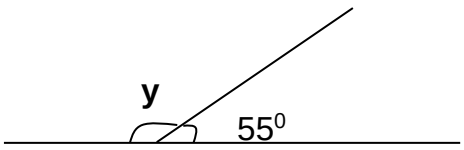
1, 3, 6, 10, _____ ?

10. 5 books cost sh. 20000. Find the cost of 7 similar books.

11. Subtract:

	Hrs	Min.
	7	3 0
	-4	4 5

12. Find the size of angle **y**.



13. Find the GCF of 12 and 20.

14. Express 2.5 km as metres.

15. Find the median of the following numbers.

3, 5, 4, 9, 2, 7, 8

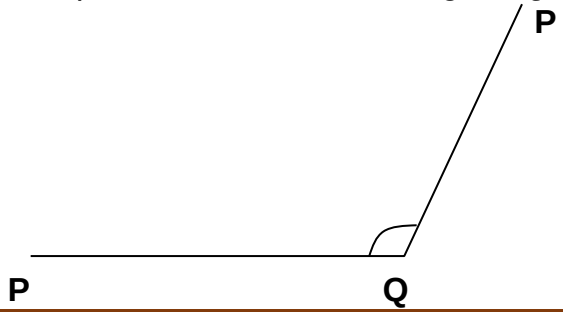
16. Arrange ½, ⅓, ¼ in ascending order.

17. Round off 77.74 to the nearest ones.

18. Set A = {1, 3}. How many subsets are in set A?

19. Solve: 3t + 4 = 10

20. Use a protractor to measure angle **PQR**.



SECTION B: (60 Marks)

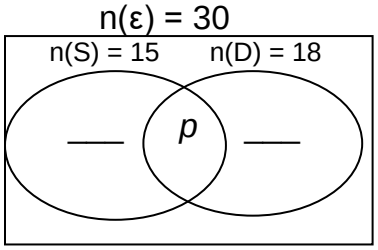
21. Mustapha bought the following items from the market.
3kg of sugar at shs. 3200 per kg.
1 ½ litres of milk at shs. 1400 each litre.
2 kg of rice at shs. 6400.
8 mangoes at shs. 500 per mango.

(a) Calculate his total expenditure. (*4 marks*)

(b) If he had shs. 25000 at first; find his change. (*2 marks*)

22. In a class of 30 pupils, 15 like singing (S), 18 like dancing (D) and *p* like both singing and dancing.

(a) Represent the above information on the venn diagram. (*2 marks*)



(b) Find the number of pupils who like both activities. (*2 marks*)

(c) How many pupils like only one activity? (*2 marks*)

23. In a class of 66 pupils, $\frac{2}{3}$ are girls and the rest are boys.

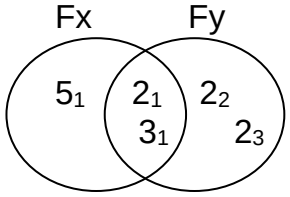
(a) Find the fraction for boys. (*1 mark*)

(b) How many girls are in the class? (*1 mark*)

(c) How many more girls than boys are in the class? (*2 marks*)

24. Using a ruler and a pair of compasses only, construct a hexagon in a circle of radius 4cm. (*4 marks*)

25. *The diagram below shows prime factors of two numbers. Use it to answer the questions below*.



(a) Find the value of (i) x (*1 mark*)

(ii) y (1 *mark*)

(b) Calculate the

(i) GCF of x and y (*1 mark*)

(ii) LCM of x and y (*2 marks*)

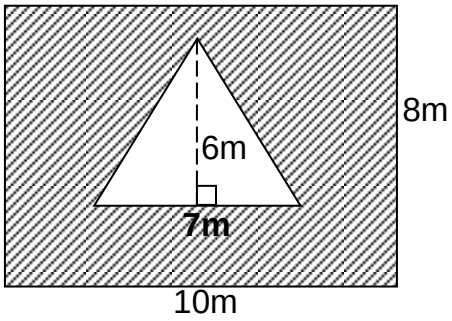
26. (a) If p = 2, r = 3 and t = 4. Find the value of; (*1 mark each*)

(i) $\frac{rt}{p}$

(ii) p(r + t)

(b) Solve: 3n – 2 = 28 (*2 marks*)

27. *Use the diagram drawn below to answer questions that follow*.



(a) Find area of the rectangle. (*2 marks*)

(b) Find area of the triangle. (*2 marks*)

(c) Find area of the shaded part. (*2 marks*)

28. *Study the magic square below and use it to answer the following questions*.

15	w	11
z	9	x
y	17	3

(a) Find the magic sum. (1 *mark*)

(b) Find the value of the unknowns. (*1 mark each*)

(i) w

(ii) x

(iii) y

(iv) z

29. *Hamza scored the following marks in his end of term one exams.*

ENG	MTC	SCIE	SST	R.E
75	50	80	65	75

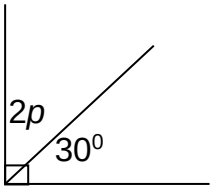
(a) What was Hamza's modal mark? (*1 mark*)

(b) Find his median mark. (*1 mark*)

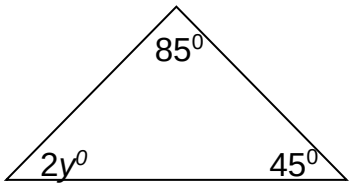
(c) Calculate his mean mark. (*2 marks*)

(d) Find his range. (*1 mark*)

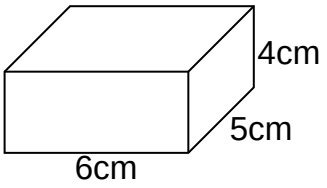
30. (a) Calculate the value of *p*. (*2 marks*)



(b) Find the value of *y*. (*2 marks*)



31. *Study the figure below and use it to answer the questions that follow.*



(a) Find the number of; (*1 mark each*)

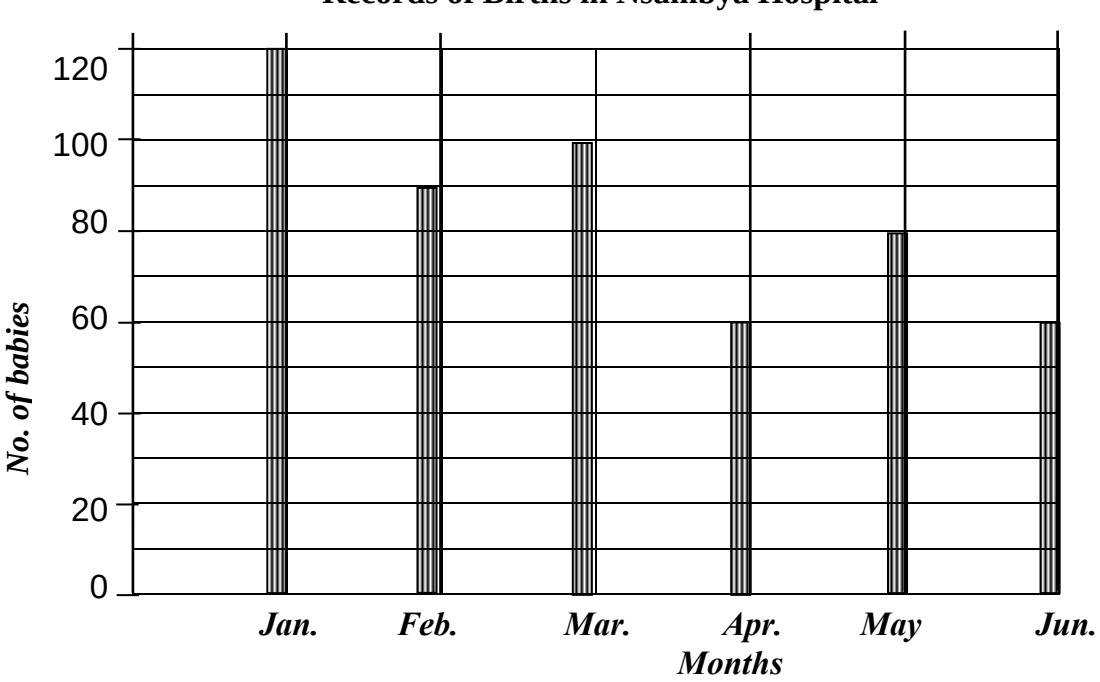
(i) edges

(ii) faces

(b) Calculate its volume. (*2 marks*)

(c) Find its total surface area. (*2 marks*)

32. *Study the graph and answer the questions that follow.*



(a) In which month was the highest number of babies born? (*1 mark*)

(b) Which 2 months had the same number of babies born? (1 *mark*)

(c) How many babies were born in February? (*1 mark*)

(d) Which 2 months had a total number of births of 220? (*2 marks*)