

ALPHA TOWN SCHOOL- KISIITA

P.O BOX 522, KAKUMIRO DISTRICT. END OF YEAR EXAMS.

SUBJECT : MATHEMATICS

CLASS : PRIMARY SIX

DURATION : 2 HOUR 30 MINUTES

PUPIL'S NAME : _____

SCHOOL : _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO
READ THE FOLLOWING INSTRUCTIONS CAREFULLY

This paper is made up of two sections **A** and **B**.

Section **A** has **20** questions (**40** marks)

Section **B** has **12** questions (**60** marks)

Answer **ALL** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.

All answers must be written using a blue or black ball-point pen or ink.

Unnecessary alteration of work may lead to loss of marks.

Any handwriting that cannot easily be read may lead to loss of marks.

Do not fill anything in the boxes indicated For Examiner's use only

FOR EXAMINERS' USE ONLY

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TEL. 0778353305

Turn Over

MATHEMATICS (P.6)

1. Work out $144 \div 6$

2. Change 3500m to km.

3. Find the square of root of 64.

4. Work out: $\frac{3}{4} + \frac{1}{2} =$

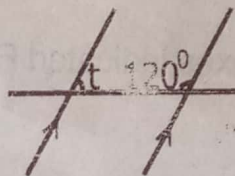
5. Increase sh. 24,000 by 5%.

6. Solve $\frac{2y}{5} + 3 = 13$

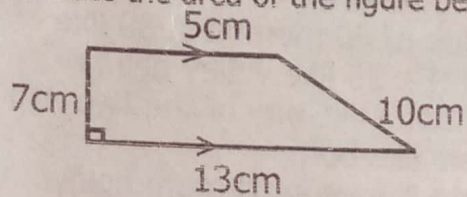
7. Kawoya got 32 mangoes in the morning and ate 28 of them. $\frac{1}{2}$ of 32 was got in the evening. How many mangoes did he have at the end of the day?

8. Change 111_{two} to base ten.

9. In the figure below, find the value of t.



10. Calculate the area of the figure below.



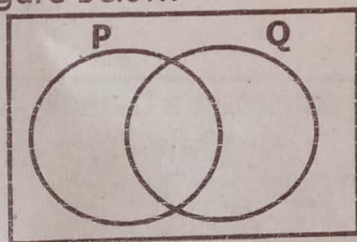
14. Musoke started washing his uniform at 8:30a.m and it took him 45 minutes to finish. At what time did he finish washing?

11. If today is Friday, what day of the week was 45 days ago?

15. Round off 999 to the nearest tens.

16. Calculate the area of a circle whose diameter is 28cm.

12. Shade the complement of $P \cap Q$ in the figure below.



13. Find the median of 4, 6, 2, 5, 3, 1, 7.

17. Using a ruler, a pencil and a pair of compasses only, construct an angle of 120° .

SECTION B

18 Find the next number in the sequence below.

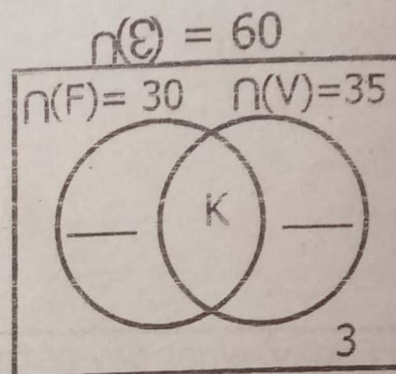
30, 29, 25, 16, _____

19 Find the GCF of 12 and 16.

20 Write 194 in Roman numerals.

21 In a club of 60 members, 30 like football (F), 35 like volley ball (V) while 3 don't like any of the two. If K members like both,

a) Complete the venn diagram below. (2mks)



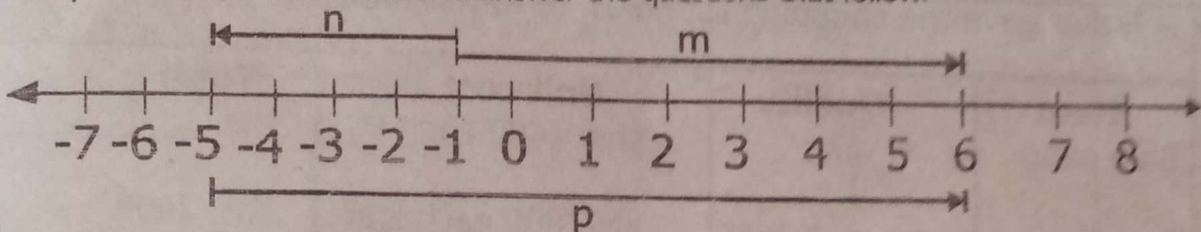
b) Find the value of K. (2 marks)

c) How many members like only one type of game? (2marks)

22 Using a ruler, a pencil and a pair of compasses only, construct a triangle ABC where $AB=7\text{cm}$, $AC=5\text{cm}$ and angle $BAC=90^\circ$. (3marks)

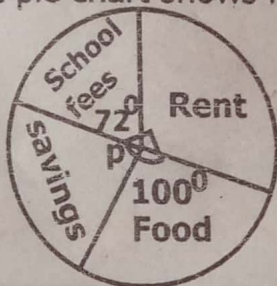
b) Measure BC. (1mk)

23. Study the number line below and answer the questions that follow.



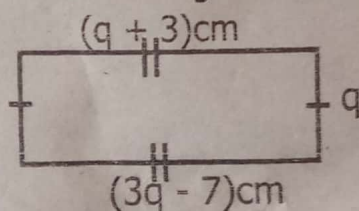
- a) Find the integers represented by the arrows; (3 marks)
 (i) m _____ (ii) n _____ (iii) p _____
 b) Write a mathematical statement for the integers shown above. (2marks)

24. The pie chart shows how Mr. Katosire spends his monthly income of sh. 720000.



- a) Find the value of P in degrees. (2mks)
 b) How much money is spent on school fees? (2mks)
 c) How much more money was spent on food than rent? (2mrks)

25. Use the rectangle below to answer the questions that follow.



- a) Find the value of q (2marks)
 b) Calculate the area of the rectangle. (3mrks)

26 A father gave the shopping list below to his children.

Item	Quality	Unit cost	Total
Blue band	<u>1</u> kg	shs. 4600 each kg	shs. _____
Bread	2 _____ loaves	shs. 800 each loaf	shs. 2400
Tea leaves	<u>1</u> kg	shs. _____	shs. 1500
Sugar	4 4kg	shs. 1800 @ kg	shs. _____
		TOTAL =	SHS. _____

Complete the shopping bill.

(4 marks)

27 a) Work out $\frac{0.024 \times 1.8}{0.6 \times 0.09}$ (3marks)

b) Simplify $\frac{1}{3} + \frac{1}{4} - \frac{1}{2}$ (2 marks)

28 a) Find the value of P in $43_p = 23_{ten}$

b) Express 11_{ten} in binary base.

(2 marks)

(3 marks)

29 In a class of 120 pupils, 45% of them are boys and the rest are girls.

a) Find the percentage of girls. (2 mark)

b) How many boys are there in the class? (2 mark)

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

30. Muwanguzi left home at 9:30a.m and reached to town at 12:00noon, moving at a speed of 80km/hr.

a) Find the time taken for Muwanguzi to reach town. (2mark)

b) Calculate the distance he covered. (2 marks)

31. David is 10 years older than Daniel. Their total age is 40 years.

a) How old is David? (2marks)

b) How old was David 5 years ago? (2 marks)

32. The sum of three consecutive even numbers is 96. If their median is K;

i) Find the numbers. (4 marks)

Work out the product of the first and third numbers. (2 marks)