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MUGWANYA PREPARATORY SCHOOL-KABOJJA

PRIMARY SEVEN PRE-PLE SET III, 2022

MATHEMATICS

TIME: 2 HOURS 30 MINUTES

NAME: _____

STREAM: _____

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.
2. All the working for both Section A and B must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the boxes indicated.

FOR EXAMINERS 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 the questions in this section

Questions 1 to 20 carry two marks each

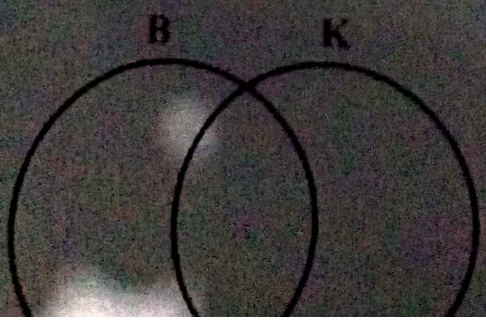
1. Subtract: 89
   - 47

2. Simplify. 7 - 12

3. Write Ten thousand three hundred sixty, in figures.

4. Simplify: $\frac{2}{3}(18a + 6y)$

5. Shade the complement of K n B in the figure below.



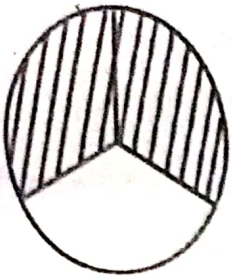
6. Sharifah and Fatuma shared 80 mangoes in the ratio of 2:3 respectively. How many mangoes did Fatuma get?

7. Martin scored the following marks in beginning of term examination:
   70, 65, 90, 82 and 75
   What is his median mark?

8. Ssekamatte had a bundle of five thousand shillings notes numbered consecutively from AD 0036464 to AD 0036478
   How much money did he have?

9. Find the H.C.F of 96 and 60.

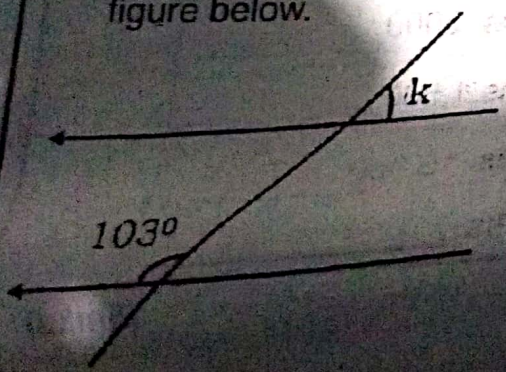
10. What percentage of the figure below has been shaded?



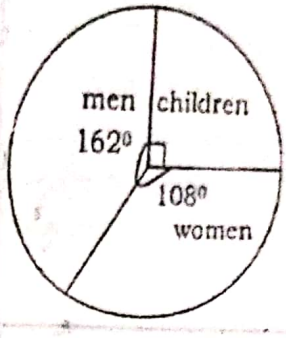
11. A passenger arrived at a bus station 15 minutes earlier than the bus normal departure time. If the bus delayed by 20 minutes, for how long did the passenger wait for the bus?

12. Expand 604 using place values.

13. Find the value of angle marked k in the figure below.



14. The pie chart below shows the number of people who attended a village meeting.



If there were 180 children who attended this meeting, how many people attended altogether

15. What must be added to 2r + 3k to make 4r – 2k?

16. Using a ruler, a pencil and a pair of compasses only, construct an angle of 30° in the space below.

17. Work out the square root of $7\frac{1}{9}$

18. Given that A = {a, t}. List any two proper subsets of set A.

19. Express 149 in Roman numerals.

20. Kakande bought 7.5 litres of milk. Express the amount of milk bought in centiliters.

SECTION B: (60 MARKS)

Answer all questions in this section

Marks for each question are indicated in brackets

21. The table below shows Mr. Gidudu's shopping bill. Study and use it to answer the questions that follow.

ITEM/QTY	UNIT COST	AMOUNT
3kg of sugar	Sh. 4,000 per kg	Shs. _____
_____kg of rice	Sh. 4.000 per kg	Shs. 2000
½ litre of parrafin	Sh._____per litre	Shs.1,500
3 dozen of books	Sh. _____per dozen	Shs.15,000
Total expenditure		Shs._____

a) Complete the above table. ***(5mks)***

b) If he had a fifty thousand shilling note and also paid shs.2000 for transport, how much money did he remain with? **(2mks)**

b) How many pupils do not like apples?

(01mark)

c) Find the total number of pupils in this class.

(02marks)

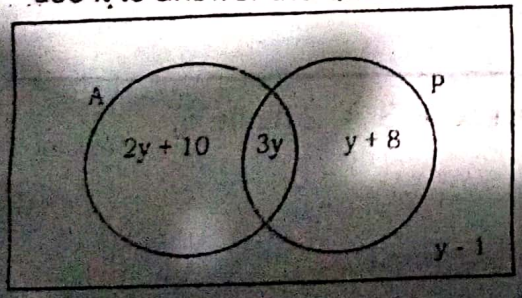
22. In a school of 600 pupils, $\frac{1}{3}$ of the are boys and the rest are girls. If $\frac{1}{4}$ of the girls are in upper primary, what is ratio of girls in the upper primary to the girls in the lower primary.

(05marks)

24. A motorist travelled from town A to town B at a speed of 60km/h for 3 hours. From B, he continued his journey to town C at a speed of 80km/h for 2 hours. Calculate the motorist's average speed for the whole journey.

(04marks)

23. The Venn diagram below shows the number of pupils in a Primary Six class who like apples (A) and pineapples (P). Study and use it to answer the questions that follow.



a) If 40 pupils like apples, find the value of y.

(02marks)

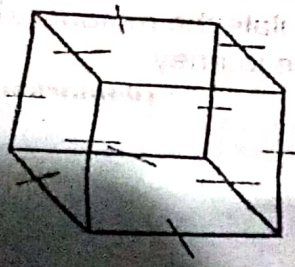
25. a) Solve: $P + \frac{3}{5} p = 16$

(02marks)

b) Benjamin is 5 years younger than Travis. 2 years ago, the total in their age was 15 years. How old is Benjamin now?

(03marks)

26. Study the figure below and answer the questions that follow.



a) Find the value of it.

(1 mark)

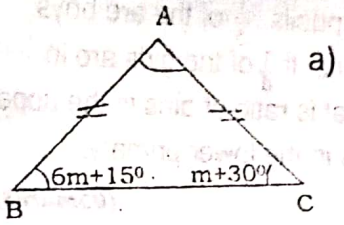
b) Calculate its total surface area.

(02marks)

c) Work out its volume

(01mark)

27. The figure ABC below is a triangle.



a) Find the value of m.

(02marks)

b) Calculate the size of angle BAC.

(02marks)

28. a) Solve: $x + 3 = 2$ (finite 6)

(02marks)

b) Today is Wednesday. What day of the week was it 79 days ago?

(03marks)

29. a) Express 0.1666…….. as a simplified common fraction. ***(3 marks)***

b) Simplify: $\frac{2}{3}$ of $\frac{1}{4} - \frac{1}{7}$ *(02marks)*

30. a) Using a ruler, a sharp pencil and a pair of compasses only, construct a rectangle PQRS, where PQ = 8cm and QR = 4cm.

(04marks)

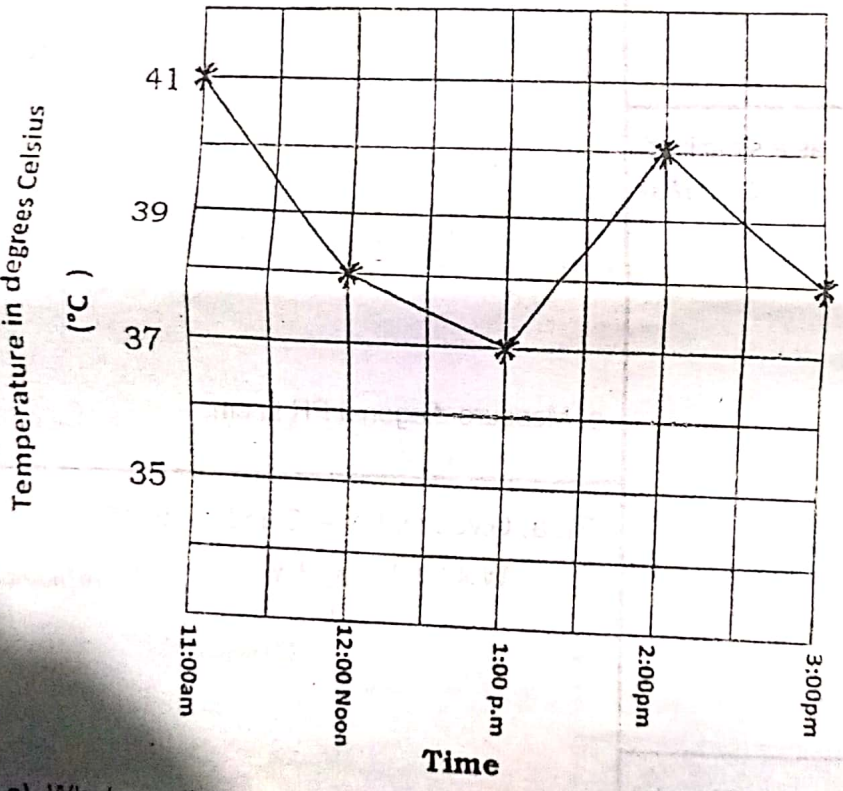
b) Measure diagonal PR in cm.

31. a) Given that x = -2 and y = 5

Work out: $\frac{2xy + y}{y}$ *(02marks)*

b) Given that $2y + 6 > 12$. Solve and find the solution set for y. *(03marks)*

32. The graph below shows the patient's temperature which was taken at an hourly interval. Use it to answer the questions that follow.



a) What was the patient's highest temperature? *(1 mark)*

b) At what time was the normal temperature recorded? *(1 mark)*

c) What was the raise in temperature from 1:00pm to 2:00pm? *(1 mark)*

d) Calculate the patient's average temperature from 11:00am to 3:00pm *(2marks)*

END