KOLOLO JUNIOR SCHOOL

Previous Mark	
Expected Mark	
Actual Mark	

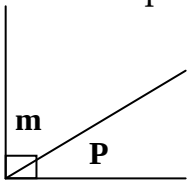
PRE PLE SET 8 2022 (B1)

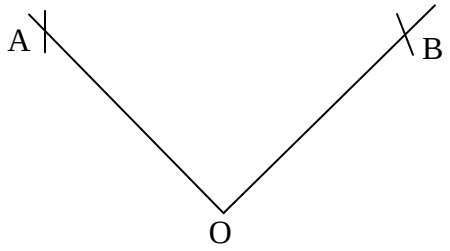
CLASS : P.7
SUBJECT : MATHEMATICS
DURATION : 2 HOURS 30 MINUTES

INDEX NUMBER : | | | | | | | | | |

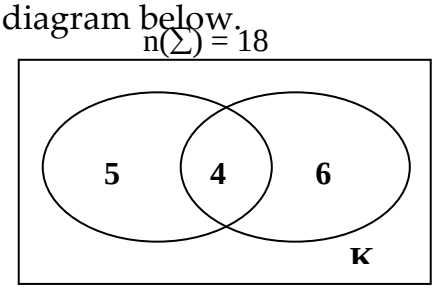
Name_____ Stream _____

SECTION A (20 QUESTIONS – 40 MARKS)

1. Work out: 3 4 x 2 _____ _____	2. Draw a Venn diagram to show that all Boys (B) are Male (M)
3. Collect like terms and simplify; 4m – 3n – 3m + 5n	4. What is the place value of 3 in 32_{five}
5. Convert 220 metres to cm.	6. In the figure below, the size of angle m is twice the size of angle p. Find the value of p if $m = \frac{P}{2}$ 

7. The average weight of 9 women is 60kg. What is their total weight?	8. Simplify: +2 + ⁻ 6 using a number line.
9. Find the sum of the next two numbers in the sequence below. 60, 59, 55, 46, 30, ____ ____	10. The Director of KOLOLO J\S increased the salary of the best teacher of term two in the ratio of 2:3. Find his new salary if the initial was sh.600, 000.
11. Using a ruler and a pair of compasses only, bisect angle AOB shown below.  	12. A tourist arrived in Uganda with $800. How much money did he have in Uganda shillings if the exchange rate was $1 = Ug.sh.3, 000?

13. Calculate the value of K in the Venn diagram below.



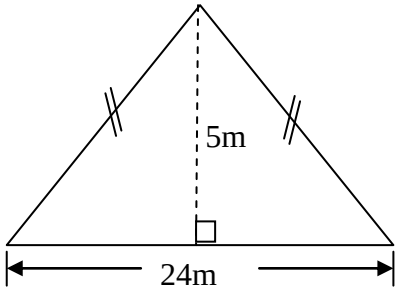
14. Write the morning time shown on the clock face below in 24 hour clock.

15. A motorist covered a distance at a speed of 80km/hr in 1 ¼ hours. What distance did he cover?

16. Maria's birthday cake weighed 40kg. If she ate 10% of it, how many grams did her family members share?

17. Convert 134_{five} to standard base.

18. The cost of a gross of books is sh.12, 0000. Find the cost of 49 similar books.

19. In Juma's wardrobe, there are 5 white shirts, K blue shirts and 2 red shirts. If the chance of selecting at random a red shirt to be worn for a dinner is $\frac{1}{5}$ Find the number of blue shirts in the wardrobe.	20. Calculate the perimeter of this figure. 

SECTION B

(12 QUESTIONS – 60 MARKS)

21. Three great friends Sherry, Shakira and Shawn shared 60 mangoes in the ratio of 3: 2: 7 respectively. How many mangoes did each get?	**(4 marks)**

22. Fatuma went to the market and bought the following items shown in the table below. **(5 marks)**

a) Complete the table

Item	**Quantity**	**Price**	**Amount**
Eggs	15	Sh. 300 per egg	Sh. _____
Meat	_____kg	Sh. 6,000 per kg	Sh. 18,000
Cooking oil	½ litre	Sh. _____per litre	Sh. 2,000
Sugar	1 ½ kg	Sh. 3,000 per kg	Sh. _____
TOTAL EXPENDITURE			Sh. _____

b) If Fatumah was given a discount of sh. 3,000 after shopping, how much did she pay? **(1 mark)**

23. Math Contestants sat for a test on a weekend and scored as follows.

Marks	75	90	60	80
No. of pupils	2	5	1	2

(a) How many pupils turned up for the test? **(1 marks)**

(b) What was the modal mark? **(2 marks)**

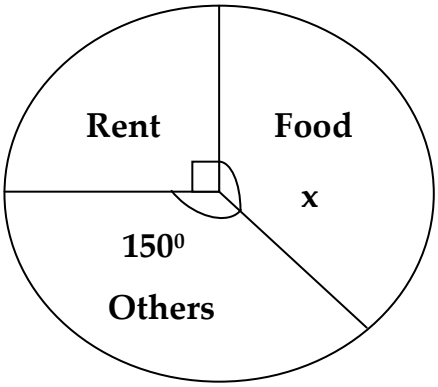
(c) Calculate their arithmetic mean. **(2 marks)**

24. Kato on Sunday left his home at 11:45am driving his PRADO to the supermarket. He arrived at 2:45pm and took 1hour and 30 minutes shopping. Unfortunately he got a call from home that his son had fainted; he drove back home 30km/hr faster covering 180km to meet the son.

a) How long did he drive from the supermarket back home? **(3 marks)**

b) Find Kato's average speed for the whole journey while driving. **(2 marks)**

25. The pie chart below shows how Mr. Busingye spends his monthly salary of sh. 360,000.

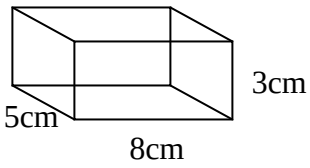


(a) Find the value of **x.** **(2 marks)**

(b) How much money does he spend on other items? **(2 marks)**

(c) Express his expenditure on rent as a percentage. **(1 mark)**

26. Mukabya sold milk during COVID-19 holiday to get money for survival. In a certain week, he sold milk for only three days, Monday, Tuesday and Wednesday. If he sold one litre more than the other day and in total he sold 132 cups at the end of the three days, how many litres were sold on the Tuesday?	**(4 marks)**
27. (a) A trader bought a radio at sh. 60,000 and sold it at sh. 75,000 (i) How much profit did he make?	**(2 marks)**
(ii) Calculate his percentage profit.	**(2 marks)**

(b) What would be his selling price if he had sold it at a loss of sh. 8000?	**(1 mark)**
28. The figure below is a rectangular prism. Study it carefully and answer questions that follow.  (a) The above figure has (i) _____ faces (ii) _____ vertices	**(1 mark@)**
(b) Calculate its volume	**(2 marks)**
(c) Work out its Total Surface Area.	**(2 mark)**

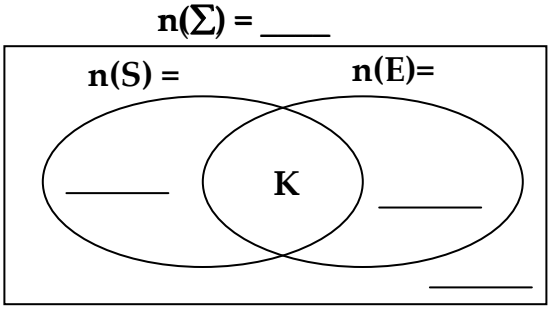
29. Two years ago, a crate of soda cost sh. 2000 less than last year. This year the same crate of soda costs sh.5000 more than last year. The cost of 6 crates of soda two years ago was the same as the cost of 4 crates this year.

a) Find the cost of a crate of soda last year. **(3 marks)**

b) Find the cost of a crate of soda this year. **(2 marks)**

30. At Kololo J/S, all pupils in P.7 like Mathematics (M). 11 pupils like English (E) but not Science (S), 12 pupils like Science but not English. K pupils like all the three subjects while 3 pupils like only Mathematics.

(a) Represent the above data on the Venn diagram below. **(4 marks)**



(b) If 53 pupils like at least two subjects, find the number of pupils who like all the three subjects. **(2 marks)**

31.a) Use the distributive property to work out;
(20 x 4) + (6 x 20) **(1 marks)**

(1 mark)

(b) A garment factory produced 4,247,367 shirts and 4,143,785 trousers. What is the sum of the clothes produced?

(c) A family which consists of twelve members received a Christmas gift of 2580 dollars from their uncle in London. How much money did each get if they shared it equally?	**(2 marks)**
32.(a) Using a ruler, sharp pencil and a pair of compasses only, construct a rectangle PQRS in which PQ = 5cm and QR = 3cm.	**(4 marks)**
(b) Measure its diagonal PR = _____	**(1 mark)**