KAMPALA PRIMARY SCHOOLS'
SKYLINE EXAMINATIONS™

P.L.E – 2022
Set 04 (FINAL)
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

Candidate's Name:...

Candidate's Signature:...

School Name:...

District Name:...

DO NOT OPEN THIS BOOK LET UNTIL YOU ARE TOLD TO DO SO.

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. Attempt ALL questions. All answers to both Sections A and B must be written in the spaces provided.

5. All answers must be written using blue or black ball-point pen or ink. Only diagrams and graphs work may be done in pencil.

6. Unnecessary alteration of work will lead to loss of marks.

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

8. Do not fill anything in the boxes indicated for examiners' use only.
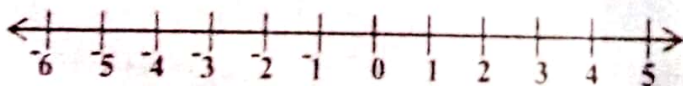
1. Work out: 48 ÷ 3	2. Write CMCIX in Hindu Arabic

3. Mudecha counted vehicles moving on Kampala – Gulu highway and tallied them shown below. How many vehicles did he count?

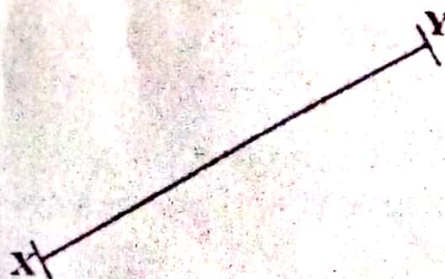|||| |||| |||| |||| |||| |||

4. Show ⁻1 – ⁻4 on the numberline below.	5. Round off 69.983 to the nearest tenths

6. Using a ruler, a sharp pencil and a pair of compasses only, bisect the line XY below.

7. Change 800gm into kilogrammes.	8. Solve for y: $3(2y + 4) = 2(y + 8)$

9. In the figure given below, what is the size of angle K?

10. Work out: $1 + 6$ (finite 7)

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11. Find the smallest number that can be divided by 6 or 8 or 12 and leaves a remainder of 4.	12. Find the square root of: $1\frac{7}{9}$

13. The cost of an apple is Shs.400 more than that of a mango. Find the cost of 9 apples, if a mango costs Shs.500.

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14. Change 12_{ten} to binary system.	15. The mean of $2p - 1$, 6, p and $3p - 1$ is 7.

16. The base area of the figure below is $96dm^2$. Find its volume.
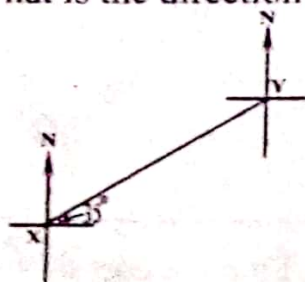

20dm

10dm

17. Muboki sold a goat for Shs.90,000/= and realised a profit of 20%. What did he pay for the goat?	18. Find the sum of the next three numbers in the sequence below: 19, 22, 24, 27, _____, _____, _____

19. Mungushi deposited Shs.300,000/= in a Bank which offered him a simple interest rate of 20% per annum. How much money did he have at the end of 1 year and 6 months.

20. What is the direction of X from Y?

SECTION B: 60 MARKS

21. (a) Work out: $\dfrac{2.4 \times 0.18}{0.6 \times 0.9}$ (2 marks)

(b) Two numbers have the lowest common multiple as 48 and their highest common factor as 8. Work out the value of the second number. If one of the numbers is 24.   (3 marks)

22. The interior angle of a regular polygon is 120^0 more than the exterior angle.
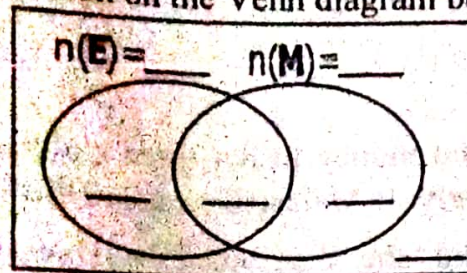
(a) What is the size of the exterior angle?

(b) Find the total interior angle sum of the polygon. (2 marks)

23. In a class (y + 5) pupils like Mathematics n(M) and English n(E), 15 pupils like only English, 2y pupils like other subjects and 3y pupils like only mathematics.

(a) Represent the above information on the Venn diagram below. (3 marks = ½ Mark each)

n(E) = ___   n(M) = ___

(b) If those pupils who like one subject are 33, what is the value of y? (2 marks)

(c) Find the number of pupils who dislike English. (2 marks)

24. Tap Q takes 5 minutes to draw water from the tank while tap R takes 4 minutes to fill the same tank.

(a) How long will it take both taps to fill the tank if they are both open at the same time? (2 marks)

(b) If the tank has a capacity of 1000 litres, how many litres of water will be in the tank when both taps were open at the same time for 5 minutes? (2 marks)

25. Mugoya went for shopping with a twenty thousand shillings note plus one ten thousand shillings note and bought the following items from a supermarket:
3Kg of sugar at Shs.3,600/= a kilogramme.
2Kgs of rice at Shs.4,400/= per Kg.
4 packets of salt of 500gm at Shs.2,000/=.
1½ Kg of posho at Shs.3,000/= each kilo.

* (a) If he was offered a discount of 10%, how much money did he pay for all the items?

(4 marks)

(b) How much change did he receive?

(2 marks)

26. Hajati Fatuma distributed money to her three children Dubya, Malaseni and Sula in the ratio 3:5:2 respectively. If Malaseni received Shs.90,000/= more than Sula;

(a) How much money did she distribute amongst her children? (3 marks)

(b) How much money did each child receive? (3 marks)

27. The table below shows the exchange rates in Buddu Bank.

CURRENCY	BUYING	SELLING
Kenya Shillings (K.Shs.)	Ugsh.35	Ugsh.36
Pound Sterling (£)	Ugsh.4,500	Ugsh.4,800

(a) If Musiitwa banked £900 and Ksh.15,000 on his account, how much money in Uganda shillings did he bank on his account?

(2 marks)

(b) A plastic tank is ¾ full of water. If 250 litres of water was used in a wedding function made the tank to become ½ full of water. Calculate the capacity of the whole tank.

(2 marks)

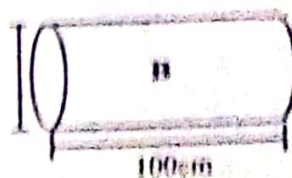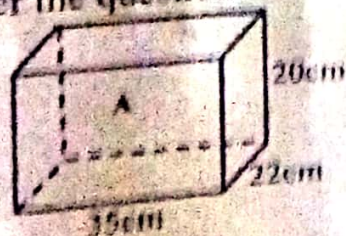28. A bus moved from town **P** to town **Q** from 12:30p.m. to 3:30p.m. at a steady speed of 80Km per hour. It then continues to town **R** at 90Km/hr for 120 minutes.

(a) Find the length of time taken by the bus to move from town **P** to town **R**. *(2 marks)*

(b) Calculate the average speed of the bus for the whole journey. *(3 marks)*

29. (a) With the help of a ruler, a pencil and a pair of compasses only, construct a rhombus **BCDE** such that **BC** = 5cm and angle **BED** = 135^0. *(3 marks)*
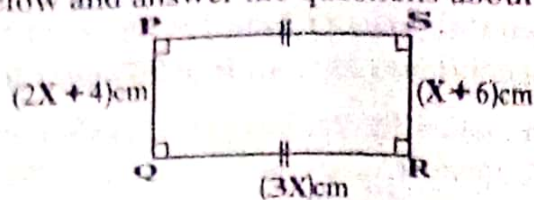
(1 mark)

(b) Measure the size of angle **BDE**.

30. The two given tanks below hold the same amount of milk when completely full. Use them to answer the questions that follow:

(a) How wide is tank **B**? *(3 marks)*

(b) Calculate the surface area of the closed tank **B**. *(3 marks)*

31. Study the rectangle below and answer the questions about it.

(a) What is the value of **X**? (2 marks)

(b) Find the length of diagonal **PR**. (3 marks)

(c) What is the perimeter of figure **PQRS**? (1 mark)

32. (a) Given that B, C and D are three towns where town B is 80Km east of town C and town D is 60Km north of town B. Draw a sketch showing the position of the three towns. (1 mark)

(b) Using a scale of drawing of 1cm to represent 10Km, draw an accurate diagram showing the position of the three towns. (3 marks)

(c) Find the distance between town C and town D. (2 marks)