

KAMPALA PRIMARY SCHOOLS' SKYLINE ASSESSMENT

PRIMARY SIX (P.6)

END OF YEAR 2023

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

DATE: _____

NAME: _____

SCHOOL: _____

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

Read the following instructions carefully.

1. The paper is made of section 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 Section A and B must be written in the spaces provided.
5. All answers must be written in 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.

FOR OFFICIAL USE ONLY.

SECTION	EXRS. MARKS	T/L MARKS	OFFICE
A			
B			
TOTAL			

SECTION A

1. Work out: 8×6

2. What is the range of the given integers:
0, -3, 2, -4, 1, -9 and 6

3. Express the shaded regions as a percentage.



4. Write 202002 in words.

5. Express CDXCIV to Arabic system.

6. With the help of a ruler, pencil and a protractor, draw an angle of 60° .

7. Work out the value of X using a dial:
 $5 - 6 = X \pmod{8}$

8. Work out: $18 - (6 \times 4) + 8$

9. Given that Set $P = \{a, b, c, d, e, f\}$ and Set $Q = \{a, e, i, o, u\}$. Find $n(P \cap Q)$.

10. The chance of picking a red pen from a bag with 12 pens is $\frac{2}{3}$. Find the probability of not picking a red pen.

11. In a class of 120 pupils, 60% like Maths and the rest like other subjects. How many pupils like other subjects?

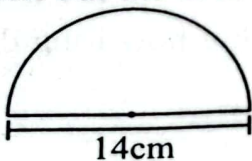
12. Given that Set $K = \{x, y, z\}$.
How many proper subsets has set K ?

13. Sserifa was facing North West and then turned anti-clockwise to face East. Find the size of angle he turned through.

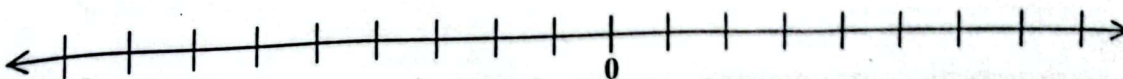
14. What is 1101_{two} base ten?

15. Decrease Shs.800 in the ratio of 3:5.

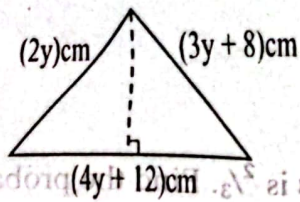
16. Work out the area of the given figure below.



17. Use the number line below to multiply 2×4 .



18. Find the distance around the figure below.

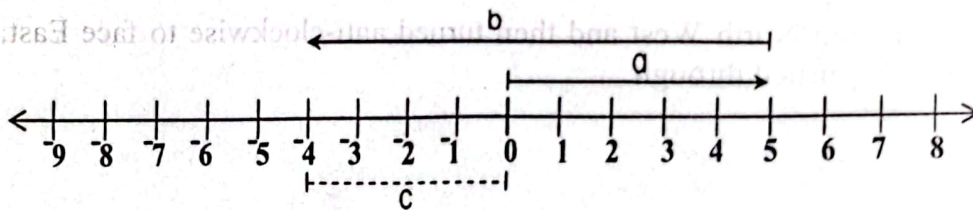


19. Solve: $-6 + 2n = 4$

20. A drama show ended at 1715 hours. Find the ending time of the show in 12-hour clock system.

SECTION B

21. Study the number line below carefully and use it to answer the questions below.



(a) Write the integers of the following arrows:

(1 mark each)

a _____

b _____

c _____

(b) Write down the mathematical statement for the number line above.

(1 mark)

22. (a) An examination began at 9:35 a.m. and ended at 12:05 p.m. For how long did the examination last?

(2 marks)

(b) Convert $5\frac{1}{4}$ hours to minutes.

(2 marks)

23. Namatovu received a bundle of Shs.5,000/= notes numbered from BE402830 to BE402839 from the bank teller.

(a) How many notes did she get from that bundle?

(2 marks)

(b) How much money did she get from the teller?

(2 marks)

24. Given that P.6 pupils scored the following marks in a class exercise. Use it to answer the questions that follow.

Marks	4	8	3	5	2
No. of pupils	3	1	2	2	1

(a) Find the modal mark.

(1 mark)

(b) What is the median mark?

(2 marks)

(c) Calculate the mean mark.

(2 marks)

(d) What is the range mark?

(2 marks)

25.(a) Solve: $-6P \leq 18$

(2 marks)

(b) Find the solution set for the given inequality above.

(2 marks)

26.(a) There are 20% more girls than boys in my class. What is the percentage of each sex in our class?

(2 marks)

(b) If the class is composed of 60 boys. How many pupils are in this class?

(2 marks)

(c) How many more girls than boys are in that class?

(2 marks)

27. A lorry travelled at a steady speed of 90Km/hr for 4 hours from town X to town Y. It then travelled back at an average speed of 60Km/hr to town X.

(a) Work out the average speed of the lorry for the whole journey.

(3 marks)

(b) How long did the vehicle take on the way coming back?

(2 marks)

28. Yozefu was given change of Shs.4,500/= after buying the following items below:

3Kg of sugar at Shs.4,800/= each Kg

1½Kg of rice at Shs.5,000/= per kilo

500gm of salt at Shs.2,600/= each Kilogram

2½Kgs of meat at Shs.14,000/= per Kg

(a) How much money did Yozefu spend altogether?

(5 marks)

(b) Find the amount of money he had at the beginning.

(2 marks)

29. A sum of Shs.72,000/= was shared by three people Ali, Alex and Anthony in the ratio of 2:3:5 respectively. How much money did each person get?

(4 marks)

30. (a) The average age of 8 pupils is 18 years. If two pupils whose ages are 11 years and 13 years leave the class, find the average age of the remaining pupils.

(3 marks)

(b) The average of 7, 4, X and 5 is 6. What is the value of X?

(2 marks)

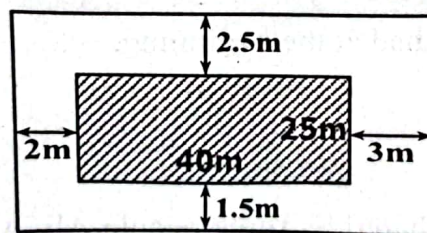
31. (a) 8 workers can do a job in 6 days. How many less days will 12 workers take to do the same job while working at the same rate?

(3 marks)

(b) Calculate the interest to be paid on a loan of Shs.100,000/= at a rate of 10% per annum for $1\frac{1}{2}$ years?

(2 marks)

32. Study the figure below and use it to answer the following questions.



(a) What is the area of the inner figure?

(2 marks)

(b) What is the area of the outer part?

(2 marks)

(c) What is the area of the un-shaded part?

(2 marks)