

GLOBE EDUCATIONAL CONSULTANCY (GEC)–KAMPALA



P.5 END OF YEAR EXAMINATION 2023 MATHEMATICS

Time Allowed: 2 hours 30 minutes

Name:

Stream: Date:

School:

District Name:

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

1. This paper is made up of section A and B.
2. Section A has 20 short answer questions (40 marks).
3. Section B has 12 questions (60 marks).
4. All answers to both section A and B must be written in the spaces provided.
5. All answers must be written in blue ink and diagrams should be drawn in pencil.
6. Any handwriting that cannot easily be read will lead to loss of marks.
7. Unnecessary alteration of work may lead to loss of marks.
8. No calculators are allowed in the examination room.
9. Do not write anything in the boxes indicated: **"FOR EXAMINERS' USE ONLY"**.

FOR EXAMINERS' USE ONLY	
SECTION	MARKS
A (Qns 1 - 20)	
B (Qns 21 - 32)	
TOTAL	

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Educating to Transform

Turn Over

SECTION A: 40 MARKS

1. Multiply:
$$\begin{array}{r} 21 \\ \times 2 \\ \hline \end{array}$$

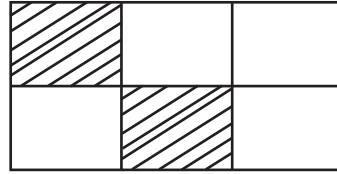
2. Expand 803 using values.

3. Find the next number in the series.
2, 4, 7, 12, _____

4. Solve for n:
 $n + 4 = 5$.

5. Express in figures "Forty thousand twenty-four".

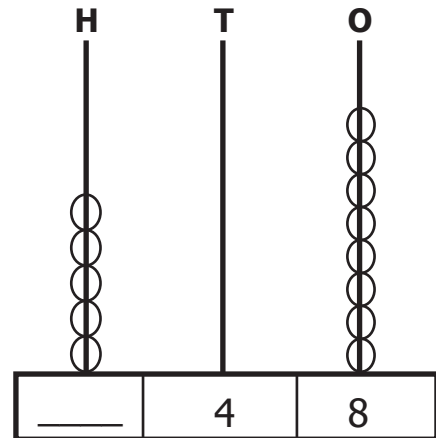
6. What fraction of the diagram below is unshaded?



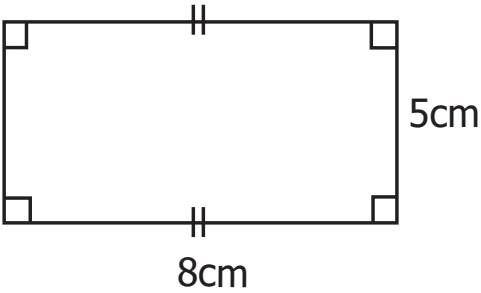
7. Given set $Q = \{c, o, r, k\}$, how many subsets has set Q?

8. Roundoff 28.93 to the nearest whole number.

9. Complete the abacus below.



10. Find the square root of 25.

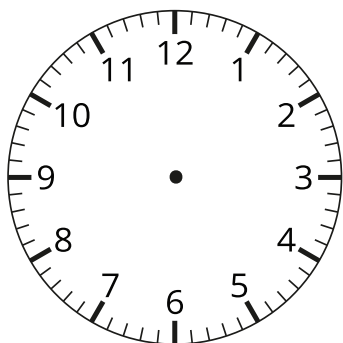
<p>11. Using a pair of compasses, a ruler and pencil only, construct an angle of 30°.</p> <p>12. If a dice is tossed once in air, what is the probability of an odd number showing on top?</p> <p>13. Write XCIX in Hindu Arabic numerals.</p> <p>14. Find the total distance around Aisha's garden below.</p> 	<p>15. A man bought a watch at sh. 25,000 and later sold it at sh. 30,000. Calculate his profit.</p> <p>16. An assembly began at 9:20a.m and ended at 10:30a.m. How long did the assembly take?</p> <p>17. Find the reciprocal of $\frac{3}{5}$.</p> <p>18. Solve: $3 + 5 = \underline{\hspace{2cm}}$ (finite 7)</p>
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19. Convert 2000g to kilograms.

20. If $Z = 2$, $W = 3$. Work out $2Z + W$.

SECTION B: 60 MARKS

21. a) Show 10 minutes to 3 o'clock on the clock face below. (2 marks)



b) Subtract:

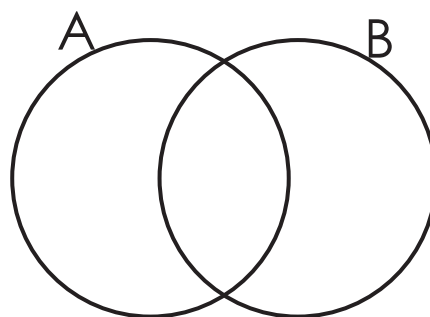
	Weeks	Days
	6	5
-	4	1
<hr/>		

(1 mark)

c) A motorist covered a distance of 240km in 4 hours. Find his speed. (2 marks)

22. Given sets $A = \{0, 1, 2, 3, 4, 5\}$ and $B = \{0, 2, 4, 10, 12, 14\}$.

a) Show the above sets on the Venn diagram below. (3 marks)



b) Find set $A \cup B$. (1 mark)

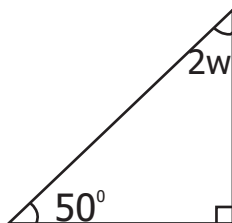
c) List down all members of set $(B - A)$. (1 mark)

23.a) Express $\frac{3}{4}$ as a decimal number. (2 marks)

b) Arrange the following fractions in descending order. (3 marks)

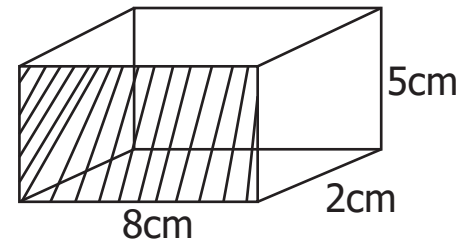
$\frac{2}{3}$, $\frac{1}{2}$, $\frac{1}{6}$ and $\frac{1}{4}$.

24. a) Find the value of the unknown angle marked w. (3 marks)



b) Jane was facing East and she turned clockwise to face North- East. Through what angle did she turn? (2 marks)

25. The figure below is of a chalk box, use it to answer questions that follow.



a) Name the above solid shape. (1 mark)

b) Find its number of: (1 mark each)

i) faces _____

ii) vertices _____

iii) edges _____

c) Calculate the shaded area. (2 marks)

26. a) Convert 24_{five} to decimal. (2 marks)

b) Subtract:
$$\begin{array}{r} 304_{\text{five}} \\ - 141_{\text{five}} \\ \hline \end{array}$$
 (2 marks)

27. Given the digits 9, 3 and 5.

a) Form the smallest three digit number from the above digits. (1 mark)

b) Find the largest three digit numeral using the above digits. (1 mark)

c) Find the sum of the smallest and largest numerals formed above. (2 marks)

28. a) Simplify: $\frac{1}{6} + \frac{3}{4}$ (2 marks)

b) In a P.5 class, there are 300 pupils. $\frac{3}{10}$ of them are girls and the rest boys.
i) What fraction of the class are boys? (2 marks)

ii) Calculate the number of girls in that class. (2 marks)

29. Otim scored the following marks in series of Maths tests:

60, 20, 55, 40, 55.

a) Find the median mark scored. (2 marks)

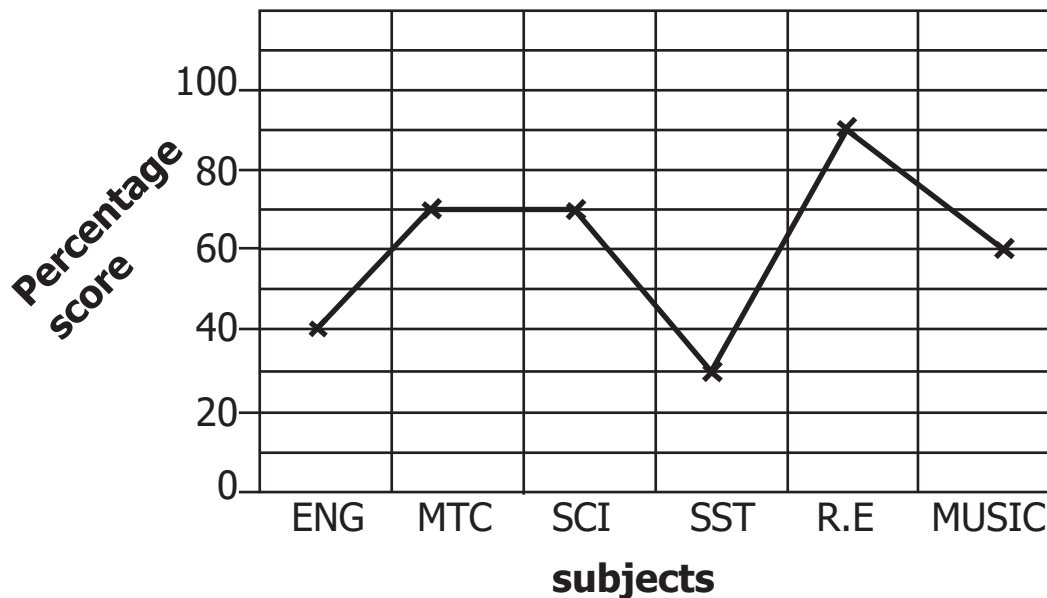
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- b) What was his modal mark scored? (1 mark)
- c) Calculate Otim's average mark scored in all tests. (2 marks)
- d) Work out the range of his marks. (1 mark)
30. a) With the use of a ruler, sharp pencil and a pair of compasses only, construct a regular hexagon of radius 3cm. (3 marks)
- b) Work out its perimeter. (2 marks)

31. Study Abbey's shopping list below and complete it correctly.

(5 marks)

ITEM	QUANTITY	UNIT COST	AMOUNT
soap	2bars	sh. 5,500	sh. _____
meat	3kg	sh. _____	sh. 30,000
rice	_____kg	sh. 4,000	sh. 6,000
sugar	1kg	sh. 5,000	sh. _____
Total cost			sh. _____

32. The graph below shows the percentage score of a pupil in class. Study and use it to answer the questions that follow.



Questions:

- In which subject did the pupil perform best? (1 mark)
- What was the pupil's score in S.S.T? (1 mark)
- In which subjects did the pupil score the same mark? (1 mark)
- Find the pupil's total score in all subjects. (2 marks)