



ARALL EDUCATIONAL CONSULTANTS [AEC]

PRIMARY SEVEN EARLY JAN EXAMS 2025 SET 1

MATHEMATICS

Time allowed: 2hrs 30mins

Index No.

Random no.						Personal no.		

Candidate's Name:.....

Candidate's Signature:.....

School Name:.....

District no.

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. Do not forget to write your school or district anywhere on this paper.
2. This paper has two section: A and B. section A has 20 questions and section B has 12 questions.
3. Answer all the questions. All the working for both sections A and B must be written in the spaces provided.
4. All answers must be written using a blue Or black ball point pen or ink. Any work written in pencil will not be marked.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks

"FOR EXAMINER'S USE ONLY"

SECTION A	
SECTION B	
TOTAL GAIN	

SECTION A [40MRKS]

1. Workout: 11×11
2. Given that $a = 3$, $b = 1$, and $x = 2$, find the value of $2a^x b$
3. A watch loses 5 seconds every one hour. How many minutes will it lose after 72hrs?
4. Pamela bought a dress at shs.60,000 and sold it at shs.72,000. What was her percentage profit?
5. Write MCMXLIV in Hindu Arabic numeral.
6. What number has been expanded to give: $[1 \times 5^3] + [2 \times 5^2] + [3 \times 5^1] + [4 \times 5^0]$?

7. Calculate the highest number of children that can share either 18 or 24 books leaving no remainder.
8. Write "One hundred twelve thousand, one hundred ten" in figures.
9. Find the next number in the sequence below. 1, 2, 5, 11, 21,,
10. Mr. TYCOON had 5 packets of yoghurt each weighing 2500ml. find the weight of the packets in litres.
11. A water tank was $\frac{2}{3}$ full of water, before $\frac{1}{3}$ of it was sold by the owner. What fraction remained after selling some water?

12. Find the square root of 0.09.

13. Using a ruler, a pencil, and a pair of compasses only to construct an angle of 105° .

14. Solve $3^{3n} \div 3^n = 81$.

15. The distance on a map between the school office and the Main hall is 12cm. Find the actual distance in kilometres, between the two places, using a scale of 1:50,000.

16. Use distributive property to work out $(20 \times 5) - (10 \times 5)$

17.Round off 76.45 to two decimal places.

18.Work out; $2-5 = \underline{\hspace{1cm}}$ (finite 7)

19.The range of 3 numbers is 19, if the middle number is 22 and their sum is 71, find the numbers.

20.Shifrah mows the compound in 8hours and Daniel can mow the same compound in 4 hours. What fraction remains after working for 1hour and 30 minutes?

SECTION B[60MRKS]

21.In a meeting of 58 people, 40 ate cabbage(C), 15 ate cabbage only, 30 ate dodo(D), L ate both of the stuffs and y people do not ate any of the two stuffs.

a. Represent the above information on the venn diagram.

- b. Find the value of L and y .

22. Workout the product of the third and the first prime numbers.

- c. The sum of 3 consecutive counting numbers is 66. If the middle number is y , find the numbers.

23. Bitankuka sold his radio to Aguti at shs.63,000 making a loss of 10%. Aguti later sold the radio to Chebet at a profit of 15%.

- a. Calculate the amount of money Bitankuka paid for the radio.

- b. For how much did Aguti sell the radio?

24. A geometry set costs half as much as a book. A book costs shs.600 more than a pen. If the total cost of the three items is shs.6,900, find the cost of the geometry set.

25. Four girls Cathy, Nusulah, Faridah and Beatrice shared shs.180,000 in the ratio of 2:3:4 respectively. Find how much each girl got.

26. Workout $\frac{2.4 \times 0.6}{0.12 \times 0.4}$

c. Six boys can slash a compound in 20 minutes. How many boys can do the same work in 12 minutes?

27. A bus driver left town A at 6:00am driving at an average speed of 50km/hr for 3hours to town B. He stopped at B for 2hours and then left for C driving at 60km/hr for 1hour. Calculate the average speed for the whole journey.

28. Given that 1US \$ = Ugshs.3700, 1TZsh.= Ugsh.2.2, 1 Ksh. = Ugsh.20.

a. How much in Ugandan shillings is equivalent to \$20 plus Tzsh.30,000?

b. A trader sold maize to kenya for Ksh.150,000. How many dollars did he get?

29. A driver drove from town P on the bearing of 300° to town Q for a distance of 56km. The driver left town Q and drove on a bearing of 230° to town R for a distance of 40km.

- a. Using a scale of 1cm to represent 8km, draw an accurate diagram to show the route of the driver.

- b. Find the shortest distance from town P to town R.

- c. Find the bearing of town R to town P.

30. In an examination, you are awarded 7 marks of every correct answer and 3 marks deducted for every wrong answer. A candidate had 9 questions correct and 5 questions wrong. What mark did the candidate score?

- c. Flavia was born in 2BC and she died in 38AD immediately after her birthday. How old was she when she died?

31. Two taps F and E are connected to a water tank. Tap F can fill the tank in 2hours while E can empty it in 3 hours. One day when the tank was a third full of water, the taps were opened at the same time. How long did it take to fill the tank.

32. The table below shows how a cyclist travelled from Iganga to Kampala.

Town	Arrival time	Departure time
Iganga		9:45am
Lugazi	10:30am	10:45am
Mukono	11:45am	12:00 noon
Kampala	1:15pm	

- a. Express the arrival time to Kampala in the 24-hour clock system.

- b. Find the time the cyclist took to travel from Lugazi to Kampala.
- c. If the distance between Lugazi to Kampala is 210km, calculate the average speed of the cyclist for the whole journey.

"better late than never, success"

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