**NAMUTUMBA TOWN COUNCIL ACADEMIC BOARD (NATCAB)**

**PRIMARY SEVEN MOCK EXAMINATIONS 2024**

**MATHEMATICS**

***Time allowed: 2 Hours 30 Minutes***

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**Index No.**

***Candidate’s Name: ……… ……………………………....................................................***

***Candidate’s Signature: ................................................................................................***

***School Random No: …………………………………………………………………………***

***District ID: …………………………………………………………………………………….***

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| **FOR EXAMINERS’ USE ONLY** | | |
| **QN. NO** | **MARKS** | **SIGN** |
| **1-5** |  |  |
| **6-10** |  |  |
| **11-15** |  |  |
| **16-20** |  |  |
| **21-22** |  |  |
| **23-24** |  |  |
| **25-26** |  |  |
| **27-28** |  |  |
| **29-30** |  |  |
| **31-32** |  |  |
| **TOTAL** | ***Turn over*** |  |

***Read the following instructions carefully:***

1. This paper has **two** Sections: **A** and **B**.
2. All the working for both sections A and B must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any hand writing that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the boxes indicated **“For Examiners’ Use Only**”.

**SECTION A**

1. Workout: 21 3

2. Write 90,049 in words.

3. Find the sum of the next two numbers in the sequence below;

1, 4, 9, 16, \_\_\_\_\_, \_\_\_\_\_\_

4. In diagram, below shade (PW)'

P W

5. Simplify: 4p – 3m + p – m

***Turn over***

6. Using a pair of compasses, a pencil and a ruler, construct an angle of 750 in the space provided.

7. Arrange -3, +2, 0, +4 and -4 in descending order.

8. Workout:

9. In the diagram below, AB is parallel to CD. Find the value of n.

B D

2n

800

A C

***Turn over***

10. If six boys can clean a room in 12 minutes. How many more boys shall be needed for the work to be done in only 9 minutes?

11. John bought a radio at sh. 9000. If 1 pound (£) costs sh. 4500. Find the cost of the radio in pounds.

12. Solve for x: 2x + 14 = 8 (finite 7)

13. What number has been written in standard form to give 2 ?

14. A store man bought 30 bags of rice. Each bag weighed 100kg. Find the number of tonnes of rice the store man bought.

***Turn over***

15. Workout: 4 – 1 × 4 ÷ 2

16. Find the highest number which can divide either 12 or 18.

17. Given that set E = {1, 2, 3}. List down the proper subsets of set E

18. The diagram below is a cuboid. Find the sum of the lengths of all its edges

6cm

2cm

4cm

***Turn over***

19. A meeting started at 11:00am and ended at 2:30pm. For how long did the meeting last?

20. If  represents 5 balls. Draw pictures to represent 20 balls

**SECTION B**

21. The Venn diagram below shows prime factors of 36 and x

F36 Fx

22 f

51

e 31

1. If the G.C.F of 36 and x is 6. Find the value of f. (2mks)

***Turn over***

1. Workout the Lowest Common Multiple of 36 and X. (3mks)

22. Akepa went shopping with 3 notes of Ten thousand shillings each to buy the following items.

3 bars of soap at shs. 3000 each

1 kg of sugar at shs. 6000

6 pens at shs. 1200 for every 2 pens

1. What was Akepa’s total expenditure, if he got a discount of 10% (4mks)
2. Find his change (1mk)

***Turn over***

23. Muzeyi bought the following construction materials for his house.

Timber sh. 500000

Cement sh. 400000

Nails sh. 200000

Labour sh. 100000

In the space provided, draw a pie-chart of radius 3.5cm to show the above information

(5mks)

24. a) Find the value of a and d (2mks)

a 6

* 1 5

3 d

b) Balye had 120 cows and his father gave him 87 more cows. If he sold 38 cows, how many cows did he remain with. (3mks)

***Turn over***

25. Daniel spent 25% on food, of the remainder on rent and saved the rest.

a) Find the fraction Daniel spent on saving (2mks)

b) If he spent sh.60,000 on rent and saving, how much money sis Daniel spend? (3mks)

26. If a = 2 and b = 3. Find the value of (3mks)

b) Akim is 4 years younger than Peter, find their total age after 6 years, if peter is 18 years.

(2mks)

***Turn over***

27. In a class, 26 pupils like English (E), 14 like Mathematics (M) only, 6 pupils like both subjects and 4 pupils like none of the subject.

a) Complete the venn diagram below (2mks)

n(E) n(M)

\_\_\_\_ 6 \_\_\_\_

4

b) How many pupils are in the class?

1. If a pupil is picked from the class at random, find the probability of picking a pupil who likes English only.

***Turn over***

28. Nabirye left home at 8:00am to workplace using a speed of 120km/hr for 2 hours. She branched to the market for 30 minutes and then continued with the journey to workplace covering a distance of 60km at a steady speed of 30km/hr.

a) Find the distance between home and market. (2mks)

b) At what time did she reach the workplace? (3mks)

29. The diagram below is a triangle ABC where angle ABC is a third angle ACB and angle CAB = 800

A

8

B C

Find the size of angle ABC (5mks)

***Turn over***

30. Using a pair of compasses, a ruler and pencil, construct a parallelogram ABCD where angle DAB = 60°, line AB = 7cm and BC = AD = 5cm.

1. Drop a perpendicular line from D to meet line AB at X
2. Measure height DX in cm

***Turn over***

31. The capacity of the water tank below is 15.4 litres.

**14cm**

h

1. Workout the value of h in cm (5mks)

32. a) It is Thursday today. Our visitation day was 40 days ago. On which day was our visitation day? (3 mks)

***Turn over***

1. Muzei Katehe died in the year 23 AD at the age of 88 years. In which year had he been born? (2mks)

***GOOD LUCK***