**MALAIKA SECONDARY SCHOOL**

**FORM ONE OPENING EXAM**

**BASIC MATHEMATICS**

**TIME: 2:30Hrs 2024**

**Instructions**

1. This paper consists ten  **(10)** questions
2. Answer all questions
3. Each question carries ( 10) marks
4. All necessary working and answers for each question must be shown clearly
5. Cellular phones and any unauthorized material are not allowed in the examination room
6. Remember to write your name and stream on every page of your answer sheet(s)

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| **FOR ASSESSOR’S ONLY** | | |
| **QUESTION NUMBER** | **SCORE** | **ASSESSOR’S INITIALS** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |
| **5** |  |  |
| **6** |  |  |
| **7** |  |  |
| **8** |  |  |
| **9** |  |  |
| **10** |  |  |
| **TOTAL** |  |  |
| **CHEKER’S INITIALS** | |  |

**QUESTIONS**

1. (a) Distinguish the place value of 2 in the number 6274267

(b) Write the largest number with 4 digits and zero is included

(c) Write the transaction in words 439357890/=

(d) Write million in numeral form

1. (a) A bus made a journey from kitchen to Ulete dispensary. The total distance was 501km. the first part of the journey from kitchen to school pitches was 196km the second part of the journey was from school pitch to sister’s house, and the third part of the journey was 21km less than the first part. How far was it from school pitch to sister’s house.

(b) Find the value of

1. (a) Find the lowest common multiples of the given numbers by listing method

6, 9, and 18

(b) Kitomali collects 23 eggs every day. Each egg is sold at Tsh 250. How much money will he earn in month of January? Assume the month has 31days

(c) Expand the following number

1. (a) Mention three application of fractions in daily life

(b) Use the number line to find the following

(c) Write down three different numbers that have 12 as their greatest common factor

1. (a) The denominator of a fraction exceeds the numerator by 7. If 3 is added to the numerator and 1 is subtracted from the denominator the resulting fraction is . Find the original fraction

(b) Write prime factors of 36 by the use of factor tree

(c) Represent on the number line

1. (a) A room is 5m long, 4.2m wide and 7m high, if this room is to be completely filled with cubical boxes of the same size, find the size and the number of the boxes required.

(b) Represent the following fractions on a number line.

1. (a) Mwalimu has given Kitomali 240 question to find the answers in 3 days holiday. When he starts to solve his questions he solved two fifths of his questions and for the second day he solved half of the remaining questions. How many questions should he solve for the last day if holiday to finish his questions?

(b) Mushi measured the temperature at midday as lower. What was the temperature at midnight?

(c) In part of Ulete the height above sea level is – 4m. What is the height above sea level after climbing 10m?

1. (a) From the numbers write the down the numbers that are
2. Prime numbers
3. Multiples of 3
4. Factors of 60

(b) A piece of land measuring 0.72m by 1.36m is divided up into square plots of the greatest possible size and how many squares are there?

1. (a) Find the value of

(b)What is different between commutative property and associative property give example.

(c) Simplify

1. (a) Arrange the following fractions in ascending order.

(b) A jewelry maker willuse 24 blue beads and 30 green beads to make necklaces. What possible number of necklaces she can make if each necklace has the same number of blue and green beads? How many of each type will be each necklace?

(c) Write the position of each digit from 493.7865.