KENYA EDUCATORS CONSULTANCY EXAMS
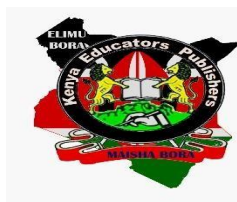

JUNIOR SECONDARY SCHOOL
GRADE 7 END TERM 1 EXAM– 2023
MATHEMATICS
Time: 2 hours

Name…………………………….... School…………

INSTRUCTIONS TO CANDIDATES:

.Do not open the booklet until you are told to do so.

.Read each question carefully.

.Answer ALL the questions.

.Write your answers, in either blue or black ink, in the spaces provided in the booklet

FOR EXAMINERS ONLY

Questions 1-19 Out of 100 marks	Candidate Score	Candidate performance level

SECTION A

Answer all the questions in this section

1. Write the following numbers in words **(2mks)**
   i. 22,041,005

   …………………………………………………………………………………………

   …………………………………………………………………………………………

   ii. 107,258

   …………………………………………………………………………………………

   …………………………………………………………………………………………

2. Considering the number 845,762,139
   i. State the place value of digit 5 in the number **(1mk)**

   …………………………………………………………………………………………

   ii. Write the total value of digit 5 in the number **(2mks)**

   …………………………………………………………………………………………

3. In the space provided below draw a place value chain to show the place value of each digit in the numbers below:
   i. 627,245 **(3mks)**

   ii. 57.0721 **(3mks)**

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4. Kasawo hall received a total of 176,324 braille equipment for their special school, Round off the number of equipment to the nearest hundred thousands.   *(2mks)*

5. Work out; **85 X 120 ÷ 40 + 35.**   *(3mks)*

6. Define:
   i.   An odd number   *(2mks)*

   …………………………………………………………………………………………………

   ii.   Even number   *(2mks)*

   …………………………………………………………………………………………………

   iii. Identify the odd numbers in the following sequence;   *(2mks)*
         222, 315, 411, 516, 902

   …………………………………………………………………………………………………

7. List down prime numbers between 1 and 10   *(3mks)*
   …………………………………………………………………………………………………
   …………………………………………………………………………………………………

8. Express 84 as a product of its prime factors.   *(3mks)*

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9. Find the numbers divisible by 9 from 783, 14, 382, 49, 795 and 467,829 *(3mks)*

10. Find the least amount of maize flour that can be packed into bags each holding 20kg, 25kg or 50kg *(3mks)*

11. Work out: $4\frac{2}{7} - \frac{11}{14}$ *(3mks)*

12. Using long division method; Solve, **214.291 ÷ 2.3** *(4mks)*

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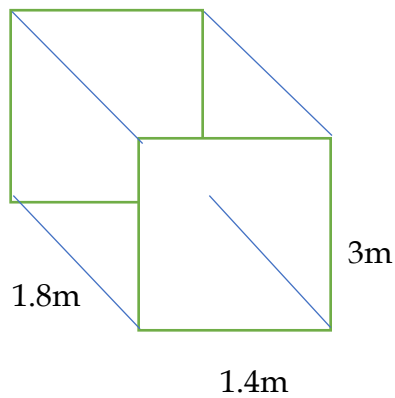13. Work out the square root of $^{81}/_{169}$ *(3mks)*

14. A bag has n oranges. One quarter of the number of oranges are sold in a day and half of the remaining sold in the following day. Form an algebraic expression for the total number of oranges sold in the 2 days. *(4 mks)*

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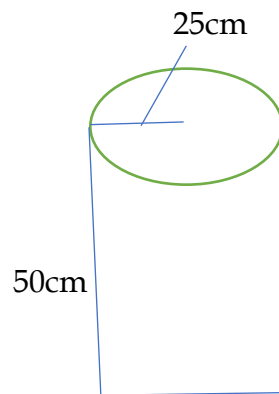
SECTION B

Answer all the questions in this section.

15. The following containers were filled with water . Calculate the capacity of each container in litres
    a). i.

3m

1.8m

1.4m

    ii.

25cm

50cm

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b). Mr Magoha too 2hours 40 minutes to walk from office to home, how long was the journey in minutes. *(2mks)*

c). Find the GCD of 6,8 and 12. *(2mks)*

16. Nekesa a trader at Gikomba market bought a crate of tomatoes for sh3600 and later sold them at sh4750
   i. Work out the profit made. *(2mks)*

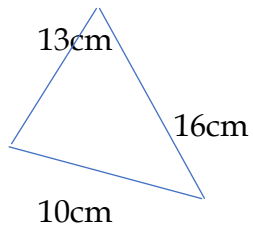   ii. Calculate the percentage (%) profit she made. *(2mks)*

   iii. During thar chilly morning the tomatoes were at a certain temperature of 120^oc and later the temperature increased by 20^oc by midday. Find the temperature of the tomatoes by midday in kelvin *(3mks)*

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iv. Round off the following number to the nearest million *(3mks)*
88, 643,215

17. Calculate

i. 37 Hm 9Dm 2m ÷ 2 *(3mks)*

ii. Find the perimeter of the figure below: *(2mks)*

13cm

16cm

10cm

iii. In the figure below: calculate the length of AC and CD *(5mks)*

A

12cm   15cm

B   5cm   C   D

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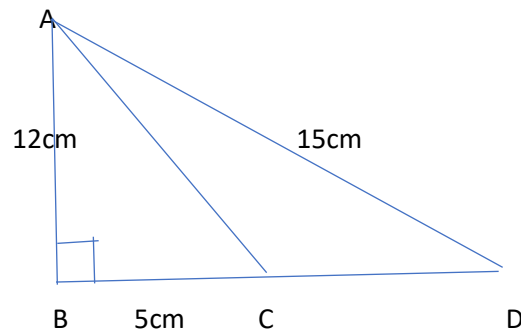
18. a) Simplify:

    i.   19w + 10z + 15w + 3z   *(2mks)*

    ii.   26x + 30y – 14x – 15y   *(2mks)*

b). The length of a rectangle is r cm, The width is 15cm shorter than the length. Write and simplify an expression for the perimeter of the rectangle.   *(3mks)*

c). Solve the following equation: *(3mks)*

$$\frac{4y - 6}{4} + \frac{4y + 7}{2} = 20$$

19. a) Illustrate the following inequality on a number line.

    i. $X > 1$ **(2mks)**

    ii. $c < 3$ **(2mks)**

    iii. $b \geq 2$ **(2mks)**

  b). Form compound inequalities from the following: **(4mks)**

    i) $x > 4$ and $x < 8$

    ii) $t \geq 2$ and $t < 7$

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