



MATSIMBE EXAMINATIONS BOARD

ASSESSMENT FOR MARCH, 2021

MATHEMATICS

(100 MARKS)

STANDARD 8

Name of candidate : _____
(Surname first)

Name of School : _____

Instructions

- This paper contains **6 pages**. Please check.
- This paper has two section **A** and **B**. Section **A** consists of **20 multiple choice** questions carrying **1 mark** each. Encircle a letter of your choice representing the right answer to each question. **Section B** has **structured** questions. Write your answers to this section on the question paper in the spaces provided. The maximum number of marks for each answer is indicated against the questions.
- Answer **all** questions
- In the table provided on this page, **tick** against the question number you have answered.

5. IMPORTANT

- Please make sure you have written your **name**, **school name**, and **examination number** on the question paper.
- Please hand in your filled-in question paper to the invigilator at the end of the examination.

Question Number	Tick Qs 1-21 if answered	Do not write in these columns	
1-20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

SECTION A : MULTIPLE CHOICES (40 MARKS)

1. Express 245 to the nearest ten.
A. 24
B. 240
C. 245
D. 250
2. Add the following decimal numbers:
11.02, 2.8, and 0.435
A. 14.255
B. 15.65
C. 18.17
D. 39.455
3. Express $\frac{4}{5}$ as a percentage.
A. 20%
B. 24%
C. 80%
D. 125%
4. Which of the following fractions is equivalent to $\frac{2}{5}$?
A. $\frac{3}{5}$
B. $\frac{10}{15}$
C. $\frac{5}{15}$
D. $\frac{6}{15}$
5. Which of the following Hindu Arabic numbers is correctly represented by Roman Numeral DCLX?
A. 419
B. 509
C. 609
D. 619
6. Simplify $4y + 7p - y - 6p$
A. $3y - p$
B. $3y + p$
C. $3y - 13p$
D. $3y + 13p$
7. What is the mean of the following numbers: 10, 28 and 13?
A. 17
B. 28
C. 48
D. 51
8. A shopkeeper sold 2 bales of sugar for K34, 000. If each bale was bought at K15, 000, what was the profit made?
A. K1,000
B. K2,000
C. K4,000
D. K19,000
9. A radio was sold for K4, 000 at a discount of 20%. What was the cash discount?
A. K200
B. K800
C. K3200
D. K3800
10. A vegetable garden is 57m long and 36m wide. What is the length of the wire required to fence the garden?
A. 21m
B. 93m
C. 186m
D. 2052m
11. Find the HCF of 18 and 36.
A. 18
B. 6
C. 72
D. 36
12. Which of the following is a proper fraction?
A. $\frac{2}{5}$
B. $1\frac{2}{5}$
C. $\frac{3}{2}$
D. $2\frac{4}{3}$

13. Multiply 0.12 by 1.2.
A. 144
B. 14.4
C. 0.144
D. 144
14. Which quadrilateral has all its sides and angles equal?
A. Kite
B. Square
C. Rectangle
D. Parallelogram
15. A person had one K1000 bank note, two K500 bank notes and ten K50 bank notes. Find the total money that the person had.
A. K2000
B. K1550
C. K2500
D. K2550
16. A boy and a girl shared 120 tablets of soap in the ratio 3:2 respectively. What was the boy's share?
A. 24
B. 40
C. 48
D. 72
17. A cow had a mass of 201kg 150g and a bull had a mass of 232kg 301g. What was the difference in mass between the animals?
A. 31kg 151g
B. 31kg
C. 433kg 151g
D. 433kg 451g
18. A salesman receives a commission of K70 on every K1000 sales. How much commission does he receive for K35, 000 sales?
A. K500
B. K100
C. K2450
D. K700
19. Find the amount of money to be paid on a loan of K18, 000 for 36 months at 5% per annum simple interest.
A. K2700
B. K20700
C. K32000
D. K27000
20. Which inequality symbol should be written in the box in order for the inequality $X - 6 \square X - 10$ to be correct?
A. $<$
B. $>$
C. \leq
D. \geq

SECTION B (60 MARKS)

21. a. Solve the following :
 - i. $981 + 762 - 312$ (3 marks)
 - ii. $875 \times 125 \div 175$ (3 marks)

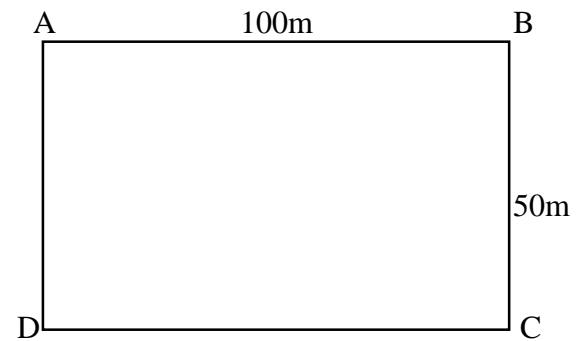
b. Multiply the difference between 701.2 and 681 by 2.3 (5 marks)

22. Simplify the following fractions : $\frac{4}{5} \times \frac{2}{3} - \frac{3}{10} \div \frac{3}{5}$

(4 marks)

23. a. A bicycle tyre has a diameter of 34.3cm.
Calculate the circumference of the tyre. (Take $\pi = \frac{22}{7}$) (3 marks)

b. Figure 1 shows a sketch of a rectangular ABCD



Find the area of the rectangle in meters



(4 marks)


24. a. Aleka had K5000 and bought 30 exercise books at K750 per unit and 5 pens at K120 per pen. Calculate the amount of money left. (5 marks)

(5 marks)

b. Tinyade received R1275 from South Africa. If 1R = K50. Calculate the amount of money that Tinyade received in Malawi Kwacha (3 marks)

25. Table 1 shows number of tomatoes sold by two vendors at a certain market.

Name of vendor	Number of tomatoes sold
Prince	
Princess	

If  represents 60 tomatoes. Calculate the difference between the number of tomatoes sold by Prince and those sold by Princess. (4 marks)

26. a. The first three numbers in a pattern are 55, 70 and 85. Find the fourth number. (4 marks)

b. What is the rule for generating the number pattern in question 26a above? (2 marks)

27. Find the total cost of the following items: 4kg sugar at K130 per kg, 15 batteries at K35.50 each, 4 radio cassettes at K275 each, 10kg of rice at K145 per kg and 250 pencils at K60 per unit (1 unit = 10 items)

(10 marks)

28. Add the difference of $9\frac{3}{16}$ and $5\frac{5}{8}$ to the product of $\frac{7}{16}$ and $\frac{8}{21}$ (3 marks)

29. In a class $\frac{3}{5}$ of the learners are girls, 20 learners are boys. How many girls are there? (4 marks)

30. Find the HCF of 289 and 357 using continued division method. (2 marks)

END OF THE QUESTION PAPER.