



MZUZU CITY STANDARDIZED EXAMINATIONS BOARD

2023 End of Term Three Standard Seven Standardized Test

MATHEMATICS

(100 marks)

Tuesday, 04 JULY

Time allowed: 2hours
8: 00 – 10: 00am

Name of Candidate: _____
 (Surname First)

Name of School: _____

Instructions:

1. This paper contains 8 pages please check
2. Answer **all** questions. In section **A**, encircle the letter representing the right answer to each question. In section **B**, write your answer in the spaces provided under each question
3. There **20** multiple choice questions in **Section A** and **10** questions in **Section B**
4. In section **B**, you need to show all your working
5. The use of electronic calculators is not allowed
6. In the table provided on this page tick against the question number you have answered

Important

- Please make sure you have written your **name** and **name** of **school** in the spaces above
- Hand in the filled paper to the invigilator after the time of examinations is called off

Number	Tick Questions 21 – 30 if answered	Do not write in these column	
1 -5			
6 - 10			
11 - 15			
16 - 20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			



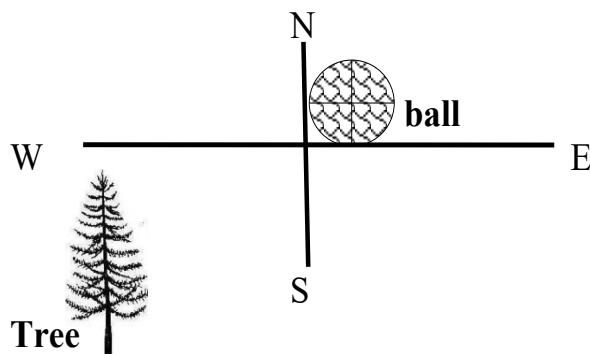
Turn over

Section A (40 marks)

Answer **all** questions in this section. **Encircle** the letter representing the **correct** answer

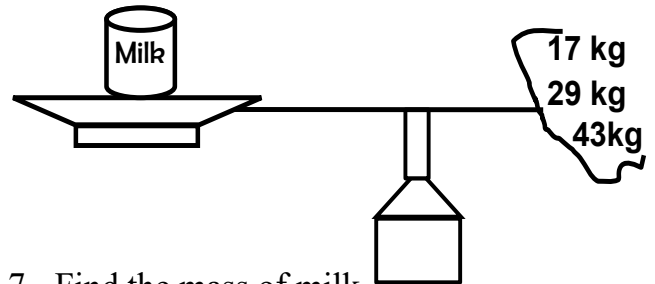
- Which of the following number is a prime factor of 20?
A. 4 C. 10
B. 20 D. 2
- Write down the missing number in the following number pattern
(40, 2) (80, 4) (100, 5) 60, ____
A. 2 C. 3
B. 1 D. 4
- Find the number of decades from 1985 to 2005.
A. 2 C. 3990
B. 20 D. 399

Figure 1 is a diagram showing position of a tree. Use it to answer question 4



- The tree is to the _____ of the ball.
A. North east C. South east
B. North west D. South west
- Name the type of quadrilateral which has one pair of opposite angles equal.
A. Trapezium C. square
B. Rhombus D. kite
- The quotient is 24 and the dividend is 72. Find the divisor.
A. 2 C. 3
B. 4 D. 36

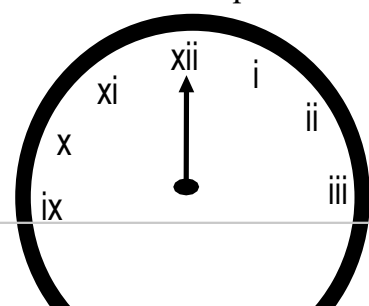
Figure 2 is a diagram showing a scale balance. Use it to answer question 7



- Find the mass of milk.
A. 43 kg C. 89kg
B. 17 kg D. 46 kg
- What is the place value of 5 in the following digit numbers; 634.075?
A. Ones C. Thousandth
B. Tenth D. Hundredth
- Complete the following tree diagram below

A. 21 C. 14
B. 84 D. 126
- What is the area of a square garden whose perimeter is 36m?
A. 18m² C. 90m²
B. 81m² D. 72m²

Figure 3 is a diagram showing a clock face. Use it to answer question 11





viii

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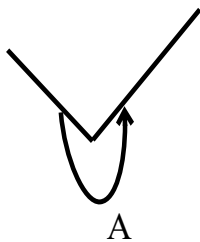
11. What is the time shown in the clock face above?

- A. Quarter past 12
B. 3 o'clock
C. 3 minutes past 12
D. 12 minutes past 3

12. What is the value of n in the equation $4 + 5n = 24$?

- A. 2
B. 3
C. 4
D. 6

Figure 4 below shows the type of angle. Use it to answer question 13



13. Name the angle labeled A.

- A. Obtuse angle
B. Acute angle
C. Reflex angle
D. Right angle

14. Write eight hundred thousand four hundred and seven in figures.

- A. 8000 407
B. 800 000 407
C. 800 400 07
D. 800 407

Table below shows items and their prices. Use it to answer questions **15** and **16**

Item	Price	Total cost
3 packets of sugar		K 4500.00

5 packets of rice	K 1200.00	
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15. What is the price of one packet of sugar?

- A. K 4,500.00
B. K 1,200.00
C. K 1,500.00
D. K 3,200.00

16. What is the total cost of 5 packets of rice?

- A. K 4,000.00
B. K 6,000.00
C. K 1,500.00
D. K 1,200.00

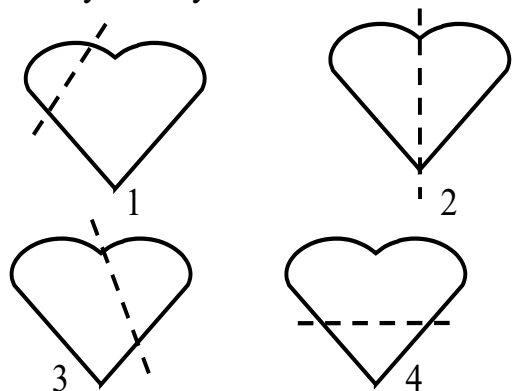
17. Increase 400 by 30%.

- A. 120
B. 430
C. 520
D. 130

18. Simplify the ratio $1\frac{1}{2} : 1\frac{3}{4}$ to its simplest form.

- A. 6 : 7
B. 7 : 6
C. 12 : 14
D. 14 : 12

19. Which of the following figures has a line of symmetry?



- A. 1
B. 2
C. 3
D. 4

20. Calculate the average of 38, 41, 23, 18.

- A. 28
B. 30
C. 32
D. 38

Section B (60 marks)

Answer all questions in this section. Write your answers in the spaces provided under each question. Show your working.

21. (a) What must be added to the sum of $13\frac{2}{5}$ and $2\frac{1}{2}$ to make $17\frac{3}{4}$

(4marks)

(b) A lorry covers a distance of 600km in 8 hours. A car covers the same distance in 5 hours. Calculate;

(i) The speed of a lorry (2marks)

(ii) The time the car arrived at its destination if it started off at 6 o'clock in the morning (2marks)

22. (a) Mphatso thinks of a number X and decreases it by 8, the result is 6. Find the number (3marks)

(b) Use continued division method to find the HCF of 120 and 400 (3marks)



23. Find the total amount to be paid back on a loan of K20,000 for 2 years at 5% simple interest (4marks)

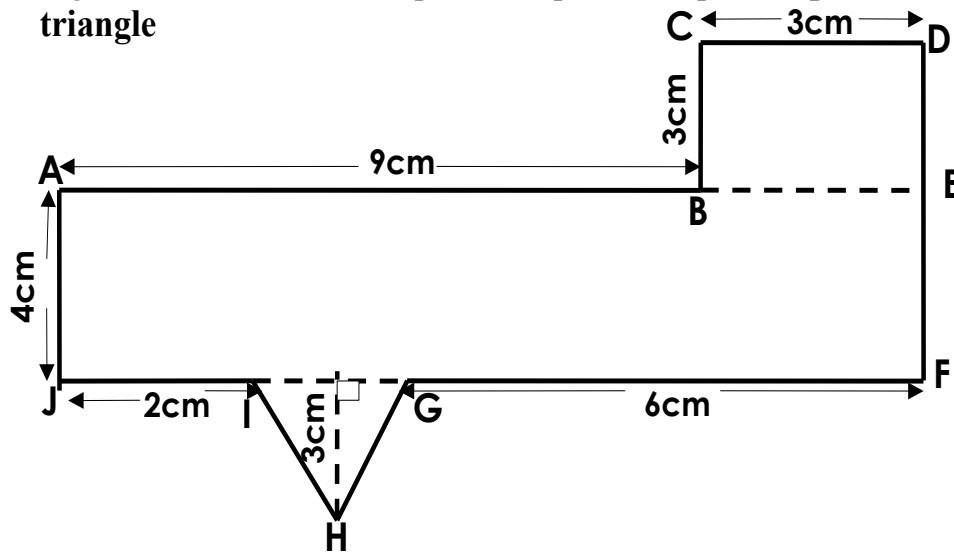
24. The following data was collected at a certain market. Use it to answer questions below

Item	Tally
Vegetables	/// /// /// //
Bananas	/// //
Fish	/// /// ////
Beef	/// ///

- (i) How many people were selling beef? (1mark)
- (ii) Which item was being sold by most people? (1mark)
- (iii) How many sellers were in the market? (2marks)

25. The circumference of a circle is 154cm. calculate its radius. (take $\pi = \frac{22}{7}$) (5marks)

26. (a) Figure below shows a composite shape made up of a **square**, a **rectangle** and a **triangle**



Calculate the area of the shape

(6marks)

- (b) The cost price of a unit of umbrella is K7500 and the selling price of each umbrella is K 820. Calculate the profit made. (3marks)

27. (a) A tank measuring 5m long 4m wide and 9m high is half full of water.
(i) Find the volume of the tank. (2marks)
(ii) Find the capacity of water in the tank in litres. (3marks)
- (b) A farmer feeds 14 cows for 42 days on a field of pasture. How long can he feed the cows if he puts 7 more cows on the field? (4marks)
28. A sales lady gets a commission of K10.00 for every K500.00 sales she makes. If she makes K60,000.00 out of the goods she sells, what is her commission? (3marks)



29. **Table** below shows the number of bags of maize yielded by 5 families. Using a **scale of 1:20**, draw a bar graph representing the information

Family	A	B	C	D	E
Number of bags	90	50	80	30	70

(5marks)

30. Prepare a bank account for Chikondano's business transactions for the month of February, 2008 and balance it
Feb. 1 balance in the bank k 7500
Feb 2: bought seeds by cheque k 1500
Feb 4: banked a cheque k 4740
Feb 15: withdrew k 2200
Feb 17: banked a cheque k 8000

(6marks)

END OF QUESTION PAPER

