



BWENGU FULL PRIMARY SCHOOL

2023 Primary School Leaving Certificate Pre- Mock

MATHEMATICS (100 marks)

Thursday, 19th January

Subject Number: P 131

Time allowed: 2 hours

8: 00 – 10: 00am

Name of Candidate: _____
(Surname First)

Instructions:

1. This paper contains 7 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 -20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Turn over

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SECTION A (40 marks)

Encircle the letter (A, B, C or D) that correspond to the right answer

1. Express 0.009838 to 3 significant figures
A. 0.009 C. 0.0083
B. 0.00984 D. 0.984
2. Increase 1650 in the ratio 5:3
A. 990 C. 550
B. 8250 D. 2750
3. What is the place value of 5 in 82.159?
A. Tens C. tenths
B. Hundredth D. Hundreds
4. The product of two numbers is 814.20. The smaller number is 236. Find the sum of the two numbers
A. 34.5 C. 790.60
B. 239.45 D. 58.1
5. In 1997, Mrs. Mhango was 37 years old. Which year will she hold her golden jubilee celebrations?
A. 1962 C. 2010
B. 2020 D. 2022
6. Calculate premium per month
A. K 950 C. K 750
B. K 850 D. K 900
7. What property was ensured?
A. Small house C. Big house
B. Saloon car D. Office furniture
8. The drawing of an object is 6cm long. Find the actual length of an object of the scale used is 1:10
A. 0.06m C. 6.0m
B. 0.6m D. 60m
9. Find the simple interest on K8000 for 4 years at 7% per annum
A. K 2,250 C. K 2,380
B. K 2,240 D. K 2,239
10. A person deposited two K1,000 bank notes, one K500 bank note and forty k20 bank notes. What was the total money deposited?
A. K 1580 C. K 2580
B. K 2300 D. K 3,300
11. A farmer wants to sell equal number of goats from the following: 30 brown, 72 black and 78 white goats. Find the largest number of goats that could be sold from each group
A. 2 C. 6
B. 3 D. 78
12. Joseph had 80 notebooks and sold them at K350 per unit. How much money did he get?
A. K 2900 C. K 280
B. K 28,000 D. K 2,800

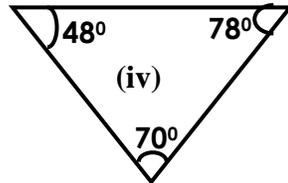
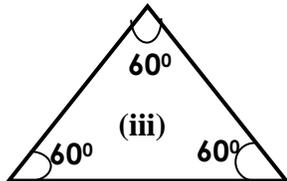
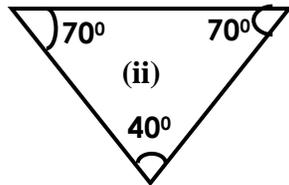
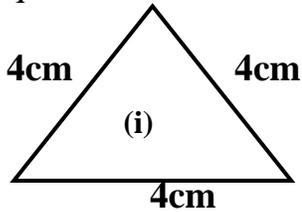
Table 1 shows property and its insurance premium paid per month. Use it to answer questions **6 and 7**

Table 1

Property	Insurance premium per month (mk)
Small house	950
Big house	580
Saloon car	900
Office furniture	750

A family paid a total premium of K4500 after ensuring a property for an agreed period of 5 years

Figure below shows triangles, use it to answer question that follows



13. Which of the triangles above are equilaterals?
 A. (i) and (ii) C. (i) and (iii)
 B. (ii) and (iii) D. (ii) and (iv)

14. A car covered a distance of 45km in 15 minutes. What was its speed km/hr?
 A. 24.5 km/hr C. 90 km/hr
 B. 180 km/hr D. 45 km/hr

15. What is the fourth number in the following number pattern 36, 39, 42, _____?
 A. 45 C. 41
 B. 40 D. 44

16. Which of the following is correct for mathematical statement: The sum of X and 4 is greater than or equal to 10?
 A. $x + 4 > 10$
 B. $x + 4 \leq 10$
 C. $x + 4 < 10$
 D. $x + 4 \geq 10$

17. A lady paid K 2,280 for 4 dresses which were marked at k 700 each. Find the discount percent which was given?

- A. 25 % C. 2 %
 B. 20 % D. 35 %

18. Find the next group of object in the following



- A. $\triangle \square \square \square \square \square$
 B. $\triangle \triangle \square \square \square \square \square$
 C. $\triangle \triangle \triangle \square \square \square \square \square$
 D. $\triangle \triangle \triangle \square \square \square \square \square$

19. A nurse worked at the hospital for three decades. How many years did she work at the hospital?

- A. 20 years C. 30 years
 B. 10 years D. 25 years

20. A trader paid 17.5% Value Added Tax (VAT) for goods worth K3,800. How much was the Value Added Tax?

- A. K 6,650 C. K 6,600
 B. K 665 D. K 66

SECTION B (60 marks)**Answer all questions in the spaces provided**

21.(a) The average of seven numbers is 35. If the average of the first six numbers is 28.
What is the seventh number? **(4marks)**

(b) Solve the following equation
 $120 + 3x + 260 - x = 450$ **(3marks)**

22.(a) Yamikani had $x + 15$ mangoes and Thoko had $x - 3$ mangoes. If there were 40 mangoes altogether, calculate the number of mangoes represented by x
(4marks)

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

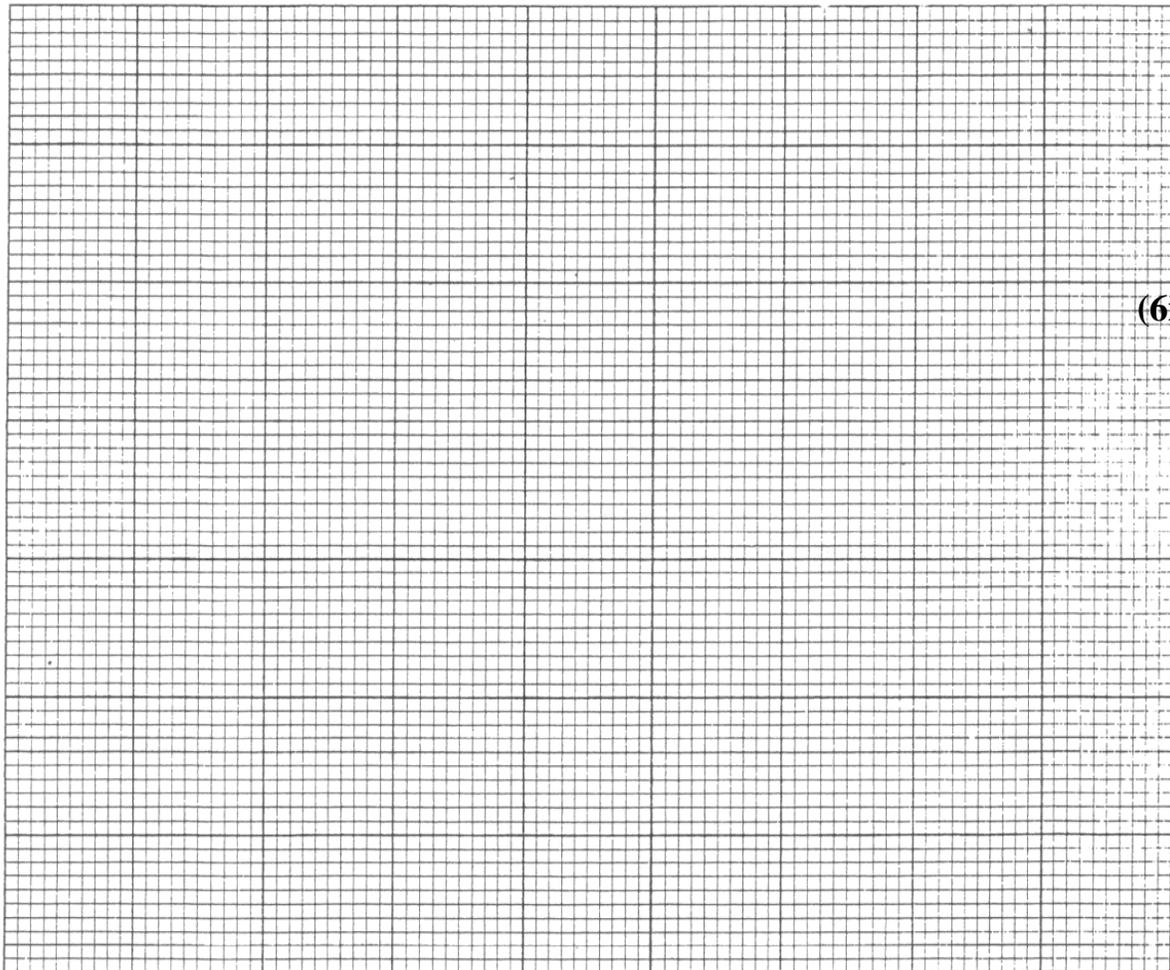
(4marks)

Table 2 shows the number of absentees in some schools around Emcisweni zone

Table 2

Number of absentees	40	60	80	20	100
School	Kabira	Zaro	Mtundura	Kampando	Jangavya

23. Using a scale of **1 cm** to represent **10 learners**, draw a linear graph for the absentees



(6marks)

Figure 2 shows a rectangle ABCD with a semi-circle EFG inside

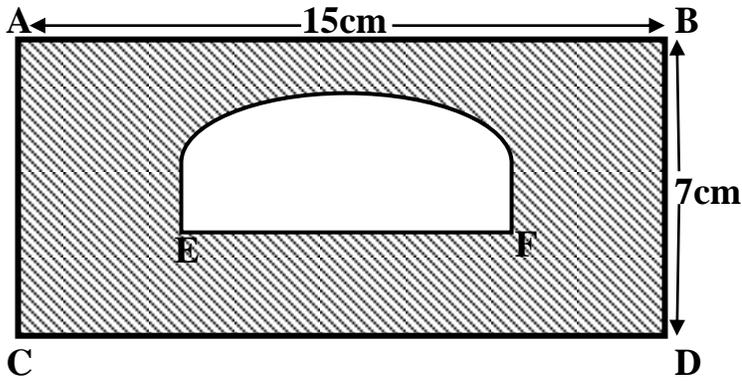


Figure 2

24. If $AB = 15\text{cm}$ and $BD = 7\text{cm}$. EF is a diameter of semi-circle and 14 cm . calculate the area of the shaded part (Take $\pi = \frac{22}{7}$) **(4marks)**

(b) If 20 brick layers take 30 days to build a church wall, how long will 12 brick layer take to build the same wall?

(3marks)

25. Buthu, Mwali and Baba together bought a sewing machine at K3, 960. If they contributed money in the ratio 4:7:9. How much did Mwali pay?

(5marks)

26. Calculate the difference between simple interest and compound interest on K50,000 for 2 years at 10% per annum

(6marks)

27.(a) Mary is 22 years old and John is **Y years** old. If the difference of their ages is 9. How old is John?

(3marks)

(b) Find the mode of the following data
2, 5, 4, 9, 3, 7, 3, 8

(2marks)

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Table 3 shows income tax rates

Income per month	Tax rate
First k 12,000	0% (tax free)
Next k 3,000	15%
Excess (over) k 15,000	30 %

28. How much tax does a person who receives a salary of K 45,000.00 pay per month?

(6marks)

29. Mphatso underestimated a given distance by 15% and Chikondi overestimated the same distance by 10% and got 880 metres. What did Mphatso get?

(3marks)

30. Mr. Banda had K10, 000 balances in hand on 1 June 2020. During the month he made the following transactions

2 June, sold fish k 7500 cash

11 June, withdrew k 6000 from the bank

22 June, paid wages for K10, 000

(6marks)

Prepare cash account for him and balance it

END OF QUESTION PAPER

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