

KHONJENI PRIMARY EXAMINATION BOARD
2019/2020 MOCK EXAMINATION
MATHEMATICS
(100 MARKS)

23rd January, 2020

Subject Number: P131
 Time Allowed: 2 hours (08:00 – 10:00)

Encircle the letter corresponding to the right answer for each question.

1. Express 0.0098745 to three significant figures.
 - A. 0.01
 - B. 0.009
 - C. 0.00099
 - D. 0.00987

2. Theodore is 1m 87cm tall. Annie is 93cm shorter than Theodore. Find the height of Annie.
 - A. 0.94cm
 - B. 9.4cn
 - C. 2m
 - D. 1m 6cm

3. Subtract 0.00986 from 0.058
 - A. 0.4814
 - B. 0.4824
 - C. 0.04918
 - D. 0.05186

4. Calculate the number of years from 18BC to 21AD
 - A. 52
 - B. 30
 - C. 39
 - D. 28

5. Decrease K1100.50 in the ratio 5:4
 - A. K1375.60
 - B. K275.10
 - C. K880.40
 - D. K220.20

The table below shows selected results for Khonjeni primary school. Use it to answer questions 6 to 8

CLASS	No. OF LEARNERS SELECTED
8A	$\frac{1}{2}$ of the class
8B	$\frac{3}{4}$ of the class
8C	$\frac{5}{12}$ of the class
8D	$\frac{2}{3}$ of the class

6. If each class had the same number of learners, which class had the smallest number of learners selected?
 - A. 8A
 - B. 8B
 - C. 8C
 - D. 8D

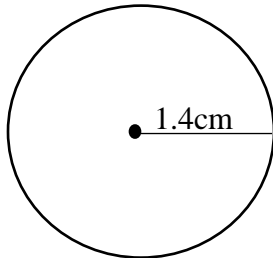
7. Find the number of learners selected from 8C if it had a total of 60 learners
 - A. 20
 - B. 25
 - C. 72
 - D. 10

8. Find the ratio of learners selected from 8B to those selected from 8D.
 - A. 8:9
 - B. 9:8
 - C. 3:2

D. 2:3

9. An agent received K1800 commission for selling newspaper. This was 15% of the total sales. Find the amount of money representing the total sales.
- A. 2700
 - B. 12000
 - C. 1200
 - D. 120000

Below is a circle with the radius 1.4cm



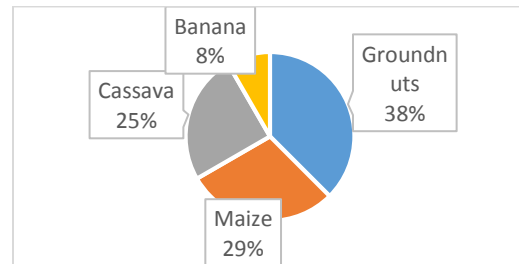
10. Calculate the perimeter of a circle
- A. 6.6cm
 - B. 3.3cm
 - C. 4.4cm
 - D. 8.8cm
11. The average age 5 of girls is 12. One of them is 16 years old. What is the average age of the remaining 4 girls?
- A. 46 years
 - B. 12 years
 - C. 11 years
 - D. 44 years
12. Mr. Sagawa bought 2 units of apples at K3000 and sold each apple at profit of K50. Find the selling price of the 2 units of apples.
- A. K4000
 - B. K3100
 - C. 3050
 - D. 2000
13. The basic salary of Mr. Zimba is K67,400 if a 10% increment is given, how much is the new salary?
- A. K60600
 - B. K60360
 - C. K73140

D. K74140

14. Find the base of a triangle which has an area of 22cm^2 and a height of $5\frac{5}{2}\text{cm}$.
- A. 2cm
 - B. 4cm
 - C. 8cm
 - D. 60.5cm

15. Simplify $\frac{4}{4}$ of $\frac{2}{3} - \frac{3}{10} \div \frac{3}{5}$
- A. $\frac{8}{15}$
 - B. $\frac{1}{30}$
 - C. $\frac{1}{2}$
 - D. $\frac{1}{21}$

The chart below shows amount of food eaten by pupils at a certain school. Use it to answer questions 16 and 17



16. Which food is eaten least at the school?
- A. Maize
 - B. Banana
 - C. Cassava
 - D. Ground nuts
17. What percentage of the food eaten at the school is cassava?
- A. 25%
 - B. 50%
 - C. 33%
 - D. 29.1%
18. Mr. Nyozeni has 2113 livestock. For every 5 goats, there are 4 sheeps. How many goats are there in his kraal?
- A. 1285
 - B. 1028
 - C. 2313

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D. 257

19. What is the place value of 6 in 34.769?

- A. Hundreds
- B. Tens
- C. Tenths
- D. Hundredth

20. Simplify $3x - 7y + 9y$

- A. $1 + 2y$
- B. $1 - 2y$
- C. $X - 16y$
- D. $X + 2y$

SECTION B (60 marks)

Answer all questions in this section.

21. (a) In a mixed school, there are 86 more boys than girls. If there are 954 learners altogether, how many girls are in the school?

(3 marks)

(b) Find the HCF of 259, 185 and 222 by using continued method.

(3 marks)

22. Calculate the difference between the simple interest and compound interest on K100,000 for two years at 20% of premium.

(4 Marks)

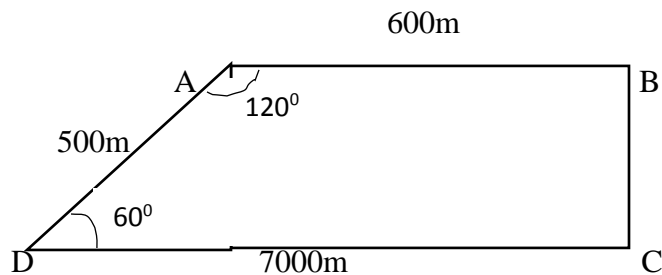
23. (a) Simplify $(20\frac{1}{2} - 4\frac{7}{8} + 1\frac{11}{12})$ of $2\frac{1}{2} \div \frac{3}{8}$

(4 marks)

(b) Divide 370 mangoes amongst Chrissie, Annie and Mphatso in the ratio $\frac{1}{2} : \frac{3}{8} : \frac{2}{3}$

(3 Marks)

24. Figure 2 is a quadrilateral ABCD which AB = 600M, AD= 500M, DC= 800M and angle BAD= 120° and angle ADC= 60°



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(5 Marks)

a) Draw the figure accurately using the scale of 1cm to represent 100M.

(5 marks)

b) Measure and state diagonal BC.

(4 Marks)

25. (a) If four learners could slash the ground in 36 days, how many more learners will be required to slash it in 24 days?

(4 marks)

(b) James gets K18000 a month. He uses 5% of this to pay for the rent. What part of his salary remains?

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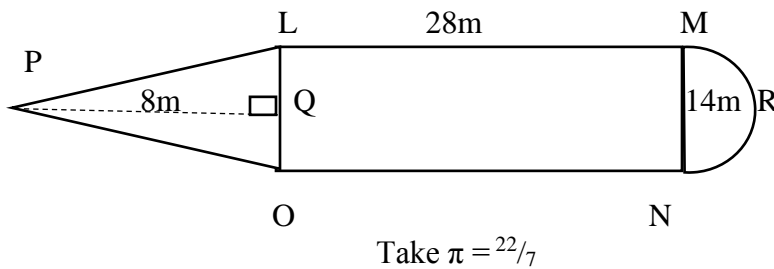
(3 marks)

Table shows tax rates on income per month. Use it to answer the following questions.

INCOME PER MONTH	RATE FOR TAX
First K9,000	0% (tax free)
Next K5,000	15
Next K10,000	25
Next K12,000	35

26. Nellie gets salary of K62500 a month. Find the amount she gets after deducting income tax.

(5 marks)



27. (a) Calculate the area of the whole figure.

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(5 Marks)

(b) Calculate the cost of fencing the whole area at K78 per m²

(5 Marks)

28. Table 3 shows the enrollment for 5 selected schools in khonjeni zone.

SCHOOL	Mitengo	Chididi	Khonjeni	Mmethiwa
ENROLLMENT	280	240	340	300

Use the above table to represent the information above on a bar graph. Using a scale of 1cm representing 70 learners.

(5 marks)

29. A fish pond measuring 4M long and 3M wide and 3M deep is half full of water. What is the capacity if the pond in litres?

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(5 marks)

30. Royce had K20,000 cash in hand on 1st December 2018 and made the following transactions within the month:

2 December banked	K12,000
3 December sold fish by cash	K6,000
5 December paid wages by cash	K1,000
5 December paid transport by cheque	K2,500
11 December withdrew	K3,000
17 December paid wages	K1,200

Prepare a cash book and balance it at the end of the month.

END OF QUESTION PAPER