MID TERM III EXAMINATIONS 2024

PRIMARY SIX

MATHEMATICS

2 HOURS 30 MINTUES

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **For examiner’s use only** | |
| **A** |  |
| **B** |  |
| **TOTAL** |  |

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

**This paper has two sections: A and B**

**Section A has 20 answer questions (40 marks)**

**Section B has 12 questions (60 marks)**

**Answer all questions. Answers to both sections must be written in the spaces provided.**

**All answers must be written using blue ink. Diagrams should be drawn in pencil.**

**Unnecessary alteration of work may lead to loss of marks**

**Any handwriting that cannot be easily read may lead to loss of marks.**

**Do not fill anything in the box indicated for examiner’s use only**

**SECTION A**

1. Add 20 to 74.
2. Given that R = {m, t, p} list down all the subsets of set R.
3. Write XXIII in Hindu Arabic numerals
4. Solve: m + 14=30
5. Find the square root of 100.
6. Two paw paws cost sh. 8000. How much money do five similar paw paws cost.
7. At school, pupils leave school for home at 5:10pm. At what time in 24 hour clock system do pupils leave school?
8. Find the next number in the sequence

10, 11, 13, 16, 20, \_\_\_\_\_\_

1. In a class of 54 students, the ratio of boys to girls is 4:5 respectively. Find the number of boys in the class.
2. Workout : 19 – 3 × 4
3. The table below shows marks got by pupils in a class

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Marks | 40 | 65 | 70 | 85 | 95 |
| Numbers of pupils | 5 | 7 | 2 | 5 | 1 |

What is the model mark?

1. Calculate the value of k in degrees.

3k

33tdegfg 3k

56°

73° 3K

1. J = {s , p, e, a, r } and K = { s, e, a, t}. find n { J-K}
2. In the figure below, work out its perimeter.

Y=20m

6m

15m

4m

9m

16m

1. Write integer which is 9 steps on the right of -4.

-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

1. If a= 4 and b= 5, find the value of a² - 2b
2. A trader borrowed sh. 800000 from a bank that gives at an interest rate of 10% p.a for 2 years. Find the simple interest the bank got after that period.
3. Prime factorize 12 and write your answer in subscript form
4. A businessman bought two cocks for sh. 18000 each. He needs to get a total profit of sh. 8000 after selling all the two cocks. At what similar price must he sell each cock?
5. A game started at 9:30 am and ended at 11:30am. How many minutes did the game take?

**SECTION B (60 MARKS)**

1. In a class of 49 students, 30 like mangoes(M), 27 like bananas (B), 2 do not like any of the two while y like both mangoes and bananas.
2. Represent the above information on the Venn diagram below. (2marks)

n (Ɛ) = 49

|  |
| --- |
| n (M) =30 n (B) =27  2 |

1. Find the value of y (2marks)
2. How many students don’t like bananas? (2 marks)
3. The sum got from adding all the three consecutive odd numbers is 45. Find the numbers ( 5marks)
4. (a) Expand 4709 using powers of 10. (2 marks)

(b) In the above number, workout the sum of the value of 4 and the place value of 9. (2 marks)

1. (a) Add: kg grams (2marks)

3 2 0 0

+ 1 7 5 0

(b) A shop keeper sells sugar in packets of 250g. How many packets can be got from a sack of 50kg of sugar? (3 marks)

1. A village has a total population of 2000 people. 40% of them are male and the rest are female.
2. What is the percentage of females? (2 marks)
3. Find the number of;
4. Males in the village (1 mark)
5. Females in the village. (1 mark)
6. If of the males and of the females are adults, find the total number of adults in the village. (1 mark)
7. The pie chart below shows the expenditure of Mr. Munene’s monthly salary of 720,000.

House 150° food

Rent x 90°

Transport

1. Find the value of x. (2 marks)
2. Calculate the amount of money spent on;
3. Food ( 1 mark)
4. Transport (1 mark)
5. House rent (1 mark)
6. (a) Simplify: 7x + 9y- 2x +2y (2 marks)

(b) Think of a number; subtract 20 from the number, the answer is 45. What is the number? (3 marks)

1. (a) Workout: 104 five + 21 five (2 marks)

(b) Change 132five to base ten. (3 marks)

1. Study the diagram below and answer the questions that follow.

Iganga Jinja Kampala

Town 90km to Kampala

To Jinja Kampala

1. A motorist took an hour to drive from Iganga town to Jinja at 80km/h. how far Iganga town to Jinja is. (2 marks)
2. If a driver at an average speed of 65km/h from Iganga to Kampala, find the time that will be taken ( 3marks)
3. (a) Simplify -3 + 8 (2 marks)

(b) Show +10 + -6 = + 4 (3 marks)

-4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

1. Study the exchange rates below of different currencies

1 Kenya shillings (ksh.1) = Ug sh. 36

1 Pound sterling (£ 1) = Ug sh. 4,800

1 Us dollar ($ 1) =Ug sh. 3,600

1 Euro (£ 1) =Ug sh. 4,000

1. How much money in Uganda shillings is equivalent to 200 pounds? (2 marks)
2. Find the number of euros that can be exchanged from 150 dollars (3 marks)
3. (a) Using a pencil, a ruler and a pair of compasses only, construct a triangle PDM such that PD= 5cm and PM= DM=7cm

(4 marks)

(b) Measure angle PMD (1 mark)

END