** END OF TERM I EXAMINATIONS – 2023**

**P.6 MATHEMATICS**

**Time allowed: 2hrs**

**Name: .........................................................**

**Read the following instructions carefully.**

1. Do not open the booklet until you are told to do so.

2. This paper has got **two** sections: **A** and **B**.

3. Section **A** has **20** questions **(40marks)** and Section **B** has **12** questions **(60mks)**

4. Answer **ALL** questions. All answers to both sections **A** and **B MUST** are written in the spaces provided.

5. **All** answers must be written using a **blue** or **black** ball point pen or **ink**. Diagrams should be drawn in pencil.

6. **Un necessary** alteration of work may lead to loss of marks.

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

**FOR EXAMINER’S USE ONLY**

|  |  |  |
| --- | --- | --- |
| **SECTION A** |  | **Total (%)** |
|  |
| **SECTION B** |  |

# SECTION A (40marks)

1. Workout: 22 + 16
2. Find the next number in the series: 25, 20, 15, 10, 5,
3. Workout: 123five + 12five
4. Using a ruler, a pencil and a sharp pencil, construct an angle of 60°.
5. Find the cost of 3 pens if 1 pen costs sh. 1000
6. In the diagram below, shade

.



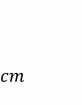
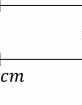
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

1. Workout +2 − +3 using a number line
2. Think of a number, add 10 to it, the result is 20. Find the number.
3. Add: Wks Days

2 3

+ 1 5

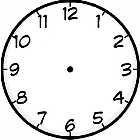
1. Find the lowest common multiple of 4 and 6?
2. Find the area of the figure below:



2

7

1. What morning time is shown on the clock face below?



1. Complete the factor tree below.



20

2 10

5

5

1. Show 132 on the abacus below.



TH H

T

O

1. Add:

+



1. Show the mathematical statement 6+ 3 on the number line below.

-7

-6 -5

-4

-3

-2

-1

0

+1

+2

+3

+4

+5

+6

1. In a test, Rick scored the following marks. 15, 10, 20, 10, 5, 10, find the modal mark.
2. Simplify: 2 4 2

+

– +



1. In the Venn diagram below, shade A-B complement

B A

1. A motorist drove at 80km/hr. for 2 hours. What distance did he cover?

# SECTION B (60marks)

1. In a stream of 50 pupils, 30 like English (E), 20 like SST (S), pupils both subjects while 3 pupils do not like any of the 2 subjects.



* 1. Show the information in the Venn diagram below. ( )

( )= \_

(*Σ*) = 50

( )=



* 1. How many pupils like both subjects?



(

)

1. The sum of 3 consecutive counting numbers is 24.



(

)

* 1. Find these numbers.
  2. Find the range of the number above. ( )

1. In the figure ABC below.

**C**



**B**

**A**



(

)

* 1. Find the area.
  2. Workout the perimeter.



(

)

1. Juma went to the shop and bought the following items. 3bars of soap at sh. 3000 per bar.

2kg of rice at sh. 4000 per kg. 500g of meat at sh. 10,000 a kg.



(

)

* 1. Find his total expenditure.
  2. Find his change if he had sh. 30,000 at the beginning.



(

)

1. of the guests in a party are ladies the rest are gentlemen.



(

)



* 1. What fraction represents gentlemen?
  2. Find the number of gentlemen in the party if the total number of guests is 50.

( )

1. (a) Arrange 3, 4, 0, 2 in ascending order.



(

)

(b) Which integer is 4 steps to the left of 4?



(

)

1. Using digits 3,9 and 4 form any 3 three digit numbers (2mks)

b) Find their range (2mks)

c) Find the value of 3 in the largest numeral you formed (1mk)

28(a) A car moves at an average speed of 60km/hr. for 3hours. What distance did cover?



(

)

(b) convert 1

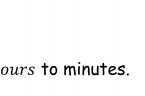


(

)

ℎ

to minutes.



29The figure below is of a cuboid.



(

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4

5

2

* 1. Find the area of the shaded face.
  2. Workout the volume of the figure above.



(

)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pupils | Mark | Musa | Mukama | Mutesi |
| Marks | 70 | 30 | 40 | 50 |

1. In a class, pupils obtained marks as shown.
   1. Who obtained the least mark? ( )
   2. Find the range of marks.



(

)

* 1. Workout the median mark. ( )
  2. Calculate the mean mark.



(

)

31(a) if m=4 ,n=3, and p=2 find the value of mx(n+p)

(b) Without dividing, show that 81 is divisible by 3



(

)

32 **Convert accordingly (2mks each)**

1. 5kg to g

1. 3.5metres to cm
2. **2 liters to ml**