# THE JEROX END OF TERM I EXAMINATION 2023

# Primary Six Mathematics

**TIME ALLOWED: 2 HOURS 30 MINUTES**

NAME _____ SIGNATURE _____

SCHOOL _____ DISTRICT _____

STREAM _____

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO**

**EAD THE FOLLOWING INSTRUCTIONS CAREFULLY**

The paper is made up of two sections **A** and **B**

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

Answer all questions in both sections A and B.

All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
Only diagrams should be drawn in pencil.

Unnecessary crossing will lead to loss of marks

Poor handwriting, which cannot be easily read may lead to loss of marks.

**FOR EXAMINER'S USE ONL**

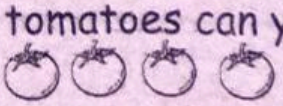
| SECTION | SCORES | REMARKS |
|---|---|---|
| A | | |
| B | | |
| TOTAL | | |

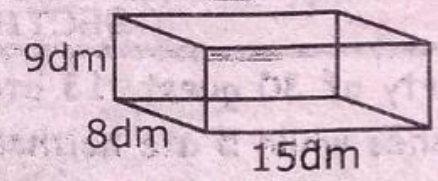
**Teacher's comment to the pupil**

_____

_____

## SECTION A (40 Marks)

| | | | |
|---|---|---|---|
| 1 | **Add:**<br>1 3<br>+ 1 4<br>_____ | 2 | The value of **6** is **6000**. Find the place value of **6**. |
| 3 | **Find the next number in the series below;**<br>1, 8, 15, 22, _____ | 4 | Write **209,049** in words. |
| 5 | **Change:** $1\frac{1}{4}$ hours to minutes | 6 | Express **84 kg** in Roman Numerals. |
| 7 | If **m =4, n = -2, workout** m – n | 8 | Express **0.45** as a common fraction in its simplest form. |
| 9 | Given that  represents **50** tomatoes, how many heaps of **10** tomatoes can you get from  ? | 10 | **Workout:** 49 – 54 + 28 |

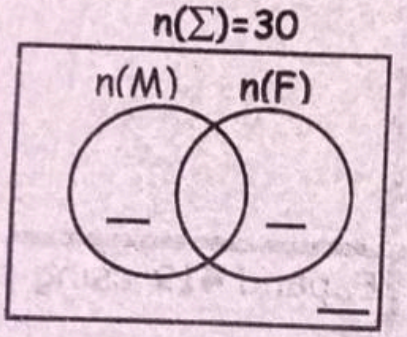
| | | | |
|---|---|---|---|
| 11 | Using a protractor, draw an angle of $69^0$. | 12 | Given that **W** = {1,2,3,4,5,6} and **X** = {1,3,5,7,9} Find n(**W – X**) |
| 13 | **Workout:** 3+5 = _____(finite 6) | 14 | **Find the volume of the shape.**   |
| 15 | **Divide:** $\frac{4}{5} \div \frac{2}{5}$ | 16 | Expand **419** using powers of ten. |
| 17 | Arrange $^{-}3, 2, 0, ^{-}2, 1$ in ascending order | 18 | Change **750g** as kilograms. |

19 Change $23_{five}$ to decimal base.

20 Wilson sold a cock at shs 50,000 making a profit of **4500**. How much did he buy the cock?

## SECTION B(60 marks)

21 a) **At a party of 30 guest, 13 ate meat (M), 16 ate fish(F), 4 guests ate both dishes while 5 ate neither of the dishes. Complete the Venn diagram.**




b) How many guests do not eat fish? *(3marks)*

22 a) Use the numeral **23,486** to find the difference in the value of **3** and **8**.

b) Round off the difference in (a) to the nearest hundreds. *(02marks)*

23 a) Workout : $\frac{3}{4} - \frac{1}{5} + \frac{1}{3}$

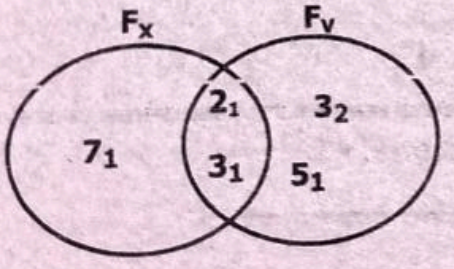
b) Arrange $\frac{3}{4}$ , $\frac{3}{5}$ , $\frac{1}{2}$ in ascending order.

24 **A shop attendant bought 12 dozens of books that he sold at sh 12,000 each dozen. If he bought each dozen at sh. 8,000.**

a) How much profit did he get after selling all the books.

*(05marks)*

25 **Prime factors are used to complete the venn diagram.**




a) Find the value of **X**.

*(01mark)*

b) Find the **GCf** of **X** and **Y**.

*(01mark)*

c) Workout the **LCM** of **X** and **Y**.

*(02marks)*

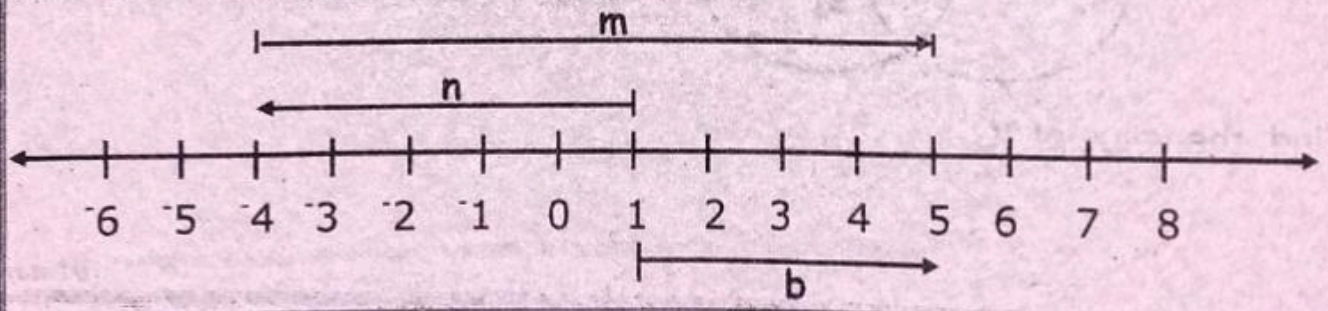
26 Using a ruler and a pair of compasses only, construct a regular hexagon of radius 4cm.

*(02marks)*

b) Find the perimeter of the shape.

*(01 mark)*

27 **Use the numberline to answer questions.**




a) Name the arrow marked:

(i) **m** = _____

(ii)**n** = _____

(iii)**b**= _____

*(01mark each)*

b) Write the additional statement for the numberline above.

*(02 marks)*

28 a) Prayesr that ended at noon lasted for $1\frac{1}{4}$ hrs. When did the prayers start.

*(02 marks)*

b) A cyclist covered a distance of **60**km, at a speed of **48**km/h. How many minutes did the journey last.

*(03marks)*

29 a) Find the value of $\mathbf{n^2}$ if $\mathbf{n} = \frac{\mathbf{5}}{\mathbf{9}}$

*(02 marks)*

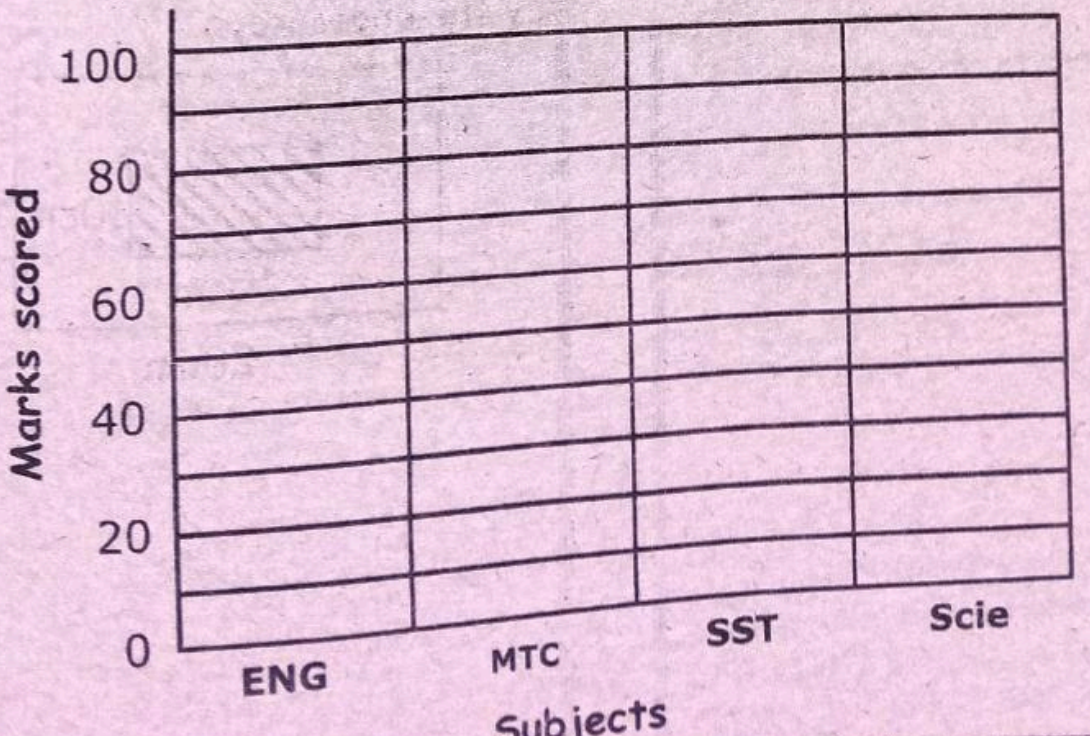
b) **Solve**: 3m + 1 – m = 25

*(03 marks)*

30 **The table shows marks scored by a pupil in mid term.**

| Subject | English | Maths | Science | Social studies |
|---|---|---|---|---|
| Marks | 75 | 80 | 65 | 85 |

**Use the information to complete the bar graph.**




*(04 marks)*

31 Godfrey went shopping and bought:

2 kg of sugar at sh **5000** a kilogram.

$1\frac{1}{2}$ kg of rice at sh **4600** each.

$\frac{1}{2}$ kg of oil at sh **7000** a litre.

a) Find how much he will pay for all items.

*(04marks)*

b) If he was given a balance of sh **4600**, find how much he went with.

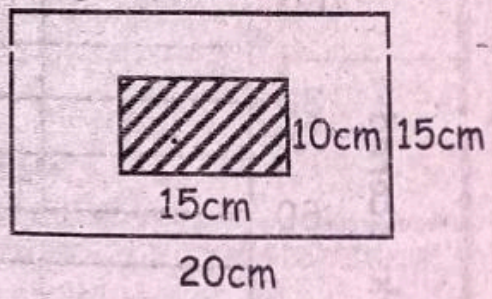
*(02marks)*

32 The area of a triangle is **24m²**. If its height is **6m**, Find its base

a)

*(02marks)*

b) **A photograph was fixed in a photoflame.** Find the area uncovered by the photograph.




*(03marks)*