

## SUREKEY EXAMINATIONS BOARD

### PRIMARY FOUR PLACEMENT SET

2023

**MATHEMATICS** 

# PREPARED BY:

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#### **SECTION A: 40 MARKS**

#### Answer**all**questions in this Section

Questions **1** to **20** carry two marks each

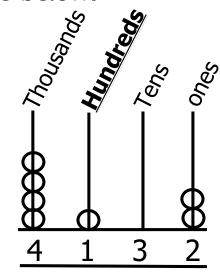
1. Workout: 4 x 3

2. Write 1,001 in words.

Thousands	Units		
1	0	0	1

= One thousand, one

3. Complete the abacus below.



4. Fill in the missing starting numbers in the sequence:

5. Workout:  $\frac{4}{8} - \frac{3}{8}$ 

$$LCD = 8$$

$$= \frac{4-3}{8}$$

$$=$$
  $\frac{1}{8}$ 

6. Subtract 4 from the number that comes after 8.

9 comes after 8

$$= 9 - 4$$

7. What number has been expanded below?

8. Mukisa sold 58 watermelons on Saturday and One hundred four watermelons on Sunday. How many watermelons did he sell in the two days altogether?

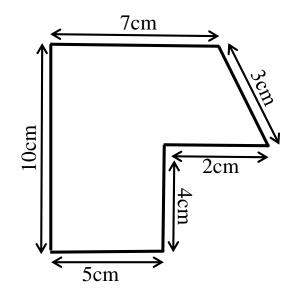
Saturday = 
$$5\frac{1}{8}$$
 8 + 4 = 12  
Sunday =  $+104$  5 + 1 = 6

- : He sold 162 watermelons in the two days altogether.
- 9. Given that  $\frac{1}{3}$  represents 15 boys in a class and  $\frac{1}{3}$  represents 20 girls the class. Find the total number of pupils represented by  $\frac{1}{3}$   $\frac{1}{3}$   $\frac{1}{3}$ .

Total number of girls
Total number of girls 1 picture represents 20 girls 2 pictures represent 20 x 2
2 pictures represent 20 x 2
<u>= 40girls</u>

Number of pupils = 30 + 40 = 70pupils

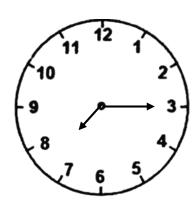
10. Calculate the Perimeter of the figure below.



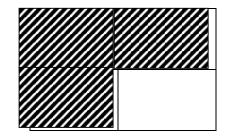
Perimeter = Sum of all sides  
= 
$$7 + 3 + 2 + 4 + 5 + 10$$
  
=  $31cm$ 

11. Write 28 in Roman Numerals.

12. Show the time 'a quarter past seven o'clock' on the clock face below.



- 13. Simplify: 9balls + 7stones + 3balls + 2stones.
  - = (9balls + 3balls) + (7stones + 2 stones)
  - = 12balls + 9stones
- 14. Aminah went to the shop and bought a book at Shs.1,500. The shopkeeper gave her a 500 shillings coin as her change. How much money did Aminah have before buying the book?
  - = Sh. 1,500 + Sh. 500 Sh. 2,000
- 15. How many days are in 3 weeks?
  - 1 week = 7 days
  - $3 \text{ weeks} = 7 \times 3$ 
    - <u>= 21days</u>
- 16. Shade  $\frac{3}{4}$  of the figure.



17. Sarah has a kettle containing 10 litres of milk and gives each of her children one  $\frac{1}{2}$  litre cup full of milk shown in the diagrams below. Find how many

children Sarah has.

- $= 10 \div \frac{1}{2}$
- $= 10 \times \frac{2}{1}$
- $= 10 \times 2$
- <u>= 20children</u>

18. Given that m = 8 and n = 3. Find the value of m + n.

19. Given that Set  $\mathbf{X} = \{a, b, c, d, e, i\}$ , Set  $\mathbf{Y} = \{all \text{ vowel letters}\}$ . List all members of set  $\mathbf{X} \mathbf{n} \mathbf{Y}$ .

20. Our school is 120 meters away from the borehole. What is the distance in centimeters (cm) given that 1m = 100cm?

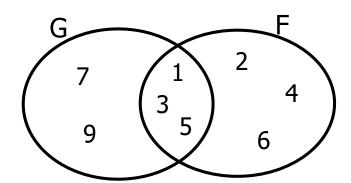
#### **SECTION B: 60 MARKS**

Answer **all** questions in this section

Marks for each question are indicated in brackets.

21. Given that, Set G = {1, 3, 5, 7, 9} Set F = {1, 2, 3, 4, 5, 6}

(a) Show the above information on the Venn diagram below. (03 Marks)



(b) How many members has Set G?

(01 Mark)

$$G = \{1, 3, 5, 7, 9\}$$
  
n(G) = 5

(c) Find n(G U F)

(02 Marks)

$$GUF = \{1, 3, 5, 7, 9, 2, 4, 6\}$$
  
 $n(GUF) = 8$ 

22. Henry went to the Supermarket and bought the following items while going back to school.

2 pens at Shs.500 for each pen 1 dozen of books at Shs.12,000 A Geometry Set at Shs.2,000

(a) How much did he pay for the pens?

(01 Mark)

(03 Marks)

1 pen costs sh.500 2 pens cost sh.500 x 2 = sh.1000

∴ He paid sh.1000 for the pens

(b) Find the total amount of money he paid for all the items he bought.

23. Given the number **4658**, use it to answer the questions below.

(a) Write the above number in expanded form using values. (01 Mark)

TH	Н	T	0
4	6	5	8

$$= (4 \times 1000) + (6 \times 100) + (5 \times 10) + (8 \times 1)$$
  
=  $4000 + 600 + 50 + 8$ 

(b) What is the place value of 5 in the above number?

(01 Mark)

TH	Н	Т	0	 ∴The place value of 5 is te
4	6	5	8	······································

(c) Find the sum of the value of 4 and 6 in the above number. (03 Marks)

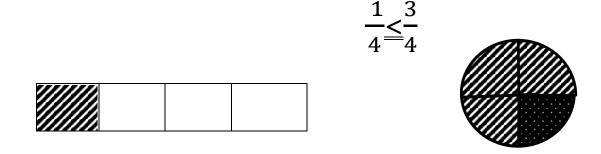
TH	Н	Т	0			<u>Sumof values</u>
4	6	5	8	$= 4 \times 1000$	$= 6 \times 100$	= 4000 + 600
	•			= 4000	= 600	= 4600

24. (a) Akello started driving his car to work at 8 o'clock in the morning and reached his workplace at a half past 10 o'clock. How long did Akello take while driving? (02 Marks)

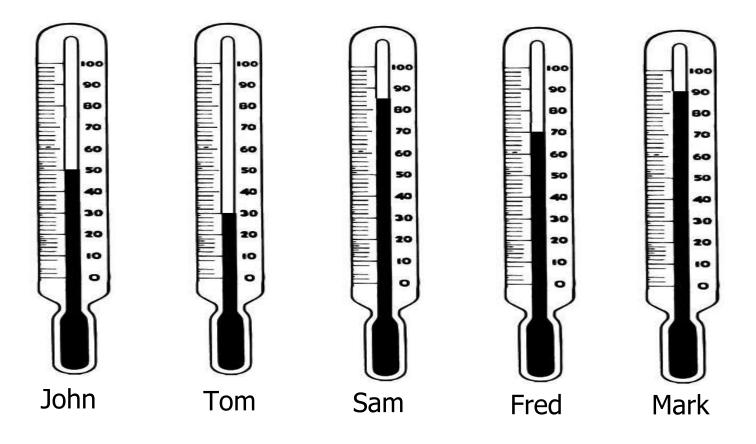
Duration = Ending time - Starting time = 10:30-8:002:30

: Akello took 2hours and 30 minutes while driving

- 25. (a) Shalon had  $\frac{7}{9}$  of a sugarcane and gave  $\frac{3}{9}$  of it to Grace. What fraction did she remain with? (02 Marks)  $= \frac{7}{9} \frac{3}{9}$  $= \frac{7-3}{9}$ 
  - (b) Use <, > or = to complete the statement. The diagrams below may help you in your working. (02 Marks)



26. The diagrams below show temperatures of five boys that were taken during the COVI9 19 Reporting to school week. Study them carefully and use them to answer questions that follow.



(a) Who had the highest temperature according to the diagrams? (01 Mark)

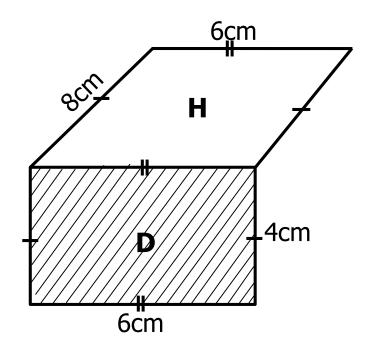
Mark had the highest temperature according to the diagrams

Sam = 85  
Fred = 
$$\frac{-70}{15}$$

(01 Mark)

#### 30 was recorded for Tom

# 27. Below are two figures **D** and **H**. Study them carefully and answer the questions that follow.



Area = L x W  
= 6cm x 4cm  
= 
$$24cm^2$$

## (b) Calculate the total distance around the two figures **H** and **D**.

(03 Marks)

28. Below is a magic square. Use it to answer the questions that follow.

m	2	7
4	6	8
5	$\boldsymbol{k}$	t

(a) Work out the magic sum

$$= 4 + 6 + 8$$
  
 $= 10 + 8$   
 $= 18$ 

Or

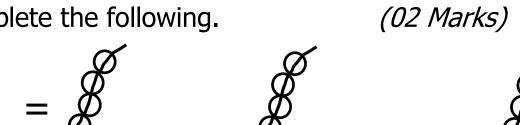
Find the value of m, k and t(b)

(03 Marks)

mkt

29. (a) Draw bundles to represent 32 pens. (02 Marks)

(b) Complete the following.





30. A store received 100 boxes where each box had 6 plates.

How many plates did the store receive? (a)

(02 Marks)

1 box has 6 plates 100 boxes have 100 x 6 = 600 plates The store received 600 plates

- (b) After selling 80 boxes, how many plates were sold?
- (02 Marks)

1 box has 6 plates 80 boxes have 80 x 6 = 480 plates

480 plates were sold

(c) How many plates remained after selling the 80 boxes? (01 Mark)

$$= \frac{\overset{5}{6}^{1}0}{\overset{1}{6}0} 0$$

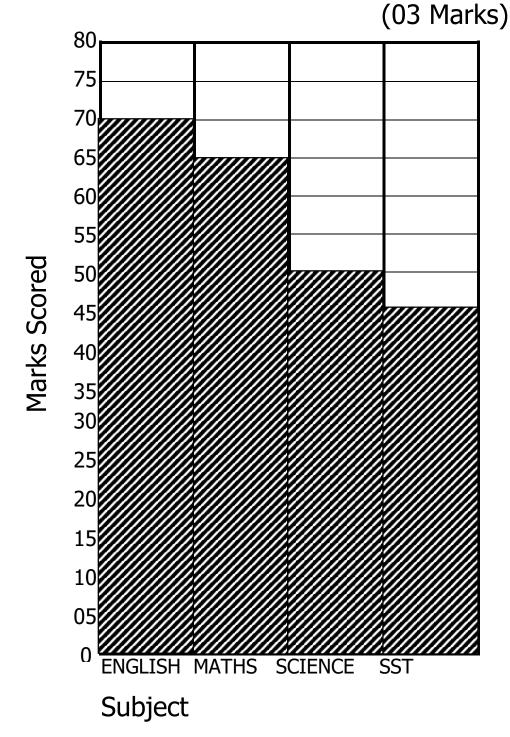
$$\frac{-480}{120}$$

120 plates remained after selling the 80 boxes

31. The table below shows how Akiiki scored in his End of Year Examinations.

Subject	ENGLISH	MATHS	SCIENCE	SST
Marks Scored	70	65	50	45

(a) Represent the information in the above table on the bar graph below.



(b) In which subject did Akiiki score the lowest marks?

(01 Mark)

Akiiki scored the lowest mark in Social studies

(c) If the pass mark was 60%, how many subjects would Akiiki pass? (01 Mark)

Akiiki would pass two subjects if the pass mark was 60%

- 32. Bruno is 8 years old. Ntambi is two years older than Bruno.
  - (a) How old is Ntambi?

(02 Marks)

- = 8 + 2
- = 10years
- : Ntambi is 10 years old
- (b) Find the total age of Bruno and Ntambi.

(02 Marks)

- = 8 + 10
- <u>= 18years</u>
- (c) How old will Bruno be after 3 years?

(01 Mark)

- = 8 + 3
- <u>= 11years</u>
- : Bruno will be 11 years after 3 years

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