



SUREKEY EXAMINATIONS BOARD PRIMARY FOUR LPTE PREPARATION SET II

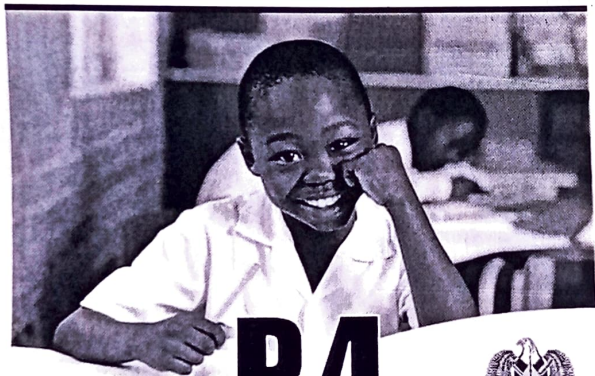
2023

MATHEMATICS GUIDE

PREPARED BY:

MR. MUBIRU SULAIMAN: 0700 758668

MR. MUKISA BENJAMIN: 0754784870



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SUREKEY EXAMINATIONS BOARD

OFFICIAL COMMENCEMENT OF

LOWER PRIMARY TRANSITIONAL Examinations

2023 October 16th – 19th

Let Quality speak for itself

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SUREKEY EXAMINATIONS BOARD
Presents



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LOWER PRIMARY TRANSITIONAL Examinations

30,000/=
Online
Registration
Fee

2023 October 16th – 19th

The Surekey Lower Primary Certificate of Education (LPCE) Examination for the 2023 junior candidates will officially start on 16th October 2023.

THEME: "Preparing quality learners for Upper Primary"

Schools interested should register with Surekey Examinations Board before 5th June 2023. Online registration is also available at 20,000/= per junior candidate. For inquiries, contact 0700758668 / 0774088304 / 0755887056

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SECTION A: 40 MARKS

Answer **all** questions in this Section
Questions **1** to **20** carry two marks each

1. Divide: $36 \div 9$.

$$\begin{array}{r} 36^4 \\ \underline{9} \\ 9 \\ \underline{9} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

2. Write 1022 in words.

1000 - One thousand
20 - twenty
2 - two
1022 - One thousand twenty-two

3. Workout: $\frac{1}{3} \times \frac{2}{3}$

$$\begin{array}{r} \frac{1}{3} \times \frac{2}{3} \\ \hline = \frac{2}{9} \end{array}$$

4. Find the next number in the sequence below:

$$\begin{array}{ccccccc} 13, & 10, & 7, & 4, & \dots! & \dots & \\ \swarrow & \searrow & \swarrow & \searrow & & & \\ & -3 & -3 & -3 & -3 & & \end{array}$$

5. Workout: $2 \times 3 + 7$.

$$\begin{array}{r} (2 \times 3) + 7 \\ 6 + 7 \\ = 13 \end{array}$$

6. Given that 1 hour has 3600 seconds. How many seconds are in 4 hours?

$$\begin{array}{r} 1 \text{ hour} = 3600 \text{ seconds} \\ 4 \text{ hours} = (4 \times 3600) \\ \hline \hline = 14400 \text{ seconds} \end{array}$$

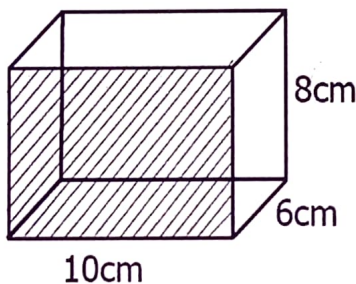
7. Mr. Samuel bought a cock at sh.40,000 and later sold it at sh. 45,000. What profit did he make?

$$\begin{aligned}\text{Profit} &= \text{S.P.} - \text{B.P.} \\ &= \text{sh. } 45000 - \text{sh. } 40,000 \\ &= \underline{\underline{\text{sh. } 5000}}\end{aligned}$$

8. A taxi carries 14 people in a trip. How many people will it carry if it makes 5 trips?

$$\begin{aligned}1 \text{ trip} &= 14 \text{ people} \\ 5 \text{ trips} &= 14 \times 5 \\ &= \underline{\underline{70 \text{ people}}}\end{aligned}$$

9. In the cuboid below, all its lengths are equal to 10cm, widths are equal to 6cm and heights are equal 8cm.



Workout the perimeter of the shaded face in the cuboid above.

$$\begin{aligned}P &= L + H + L + H \\ P &= (10 + 8) + (10 + 8) \\ P &= 18 + 18 \\ P &= \underline{\underline{36 \text{ cm}}}\end{aligned}$$

10. Expand **2436** using values.

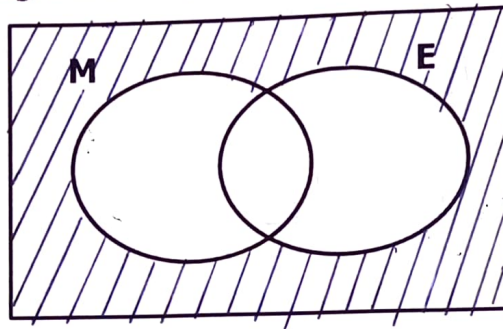
$$\begin{array}{cccc} \text{Th} & \text{H} & \text{T} & \text{O} \\ 2 & 4 & 3 & 6 \end{array}$$

$$\begin{aligned}(2 \times 1000) &+ (4 \times 100) + (3 \times 10) + (6 \times 1) \\ &= \underline{\underline{2000 + 400 + 30 + 6}}\end{aligned}$$

11. In a class there are 24 girls and 15 boys. Write the total number pupils In Roman Numerals.

<u>Total</u> $24 + 15$ 39 pupils	<u>In Roman Numerals</u> 39 $30 + 9$ $\downarrow \quad \downarrow$ $XXX \quad IX$ $XXXIX$ pupils.
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12. In the Venn diagram below, shade everything else **but not** MUE.



13. In a bag, there are 20 pens, of these: 5 are black, 8 are red and the rest are blue. How many blue pens are in the bag?

$$\begin{aligned}
 &20 - (5 + 8) \\
 &20 - 13 \\
 &= \underline{\underline{7 \text{ blue pens}}}
 \end{aligned}$$

14. The distance between Elisa's home and school is 3km. if $1\text{km} = 1000\text{m}$. How many metres are there from Elisa's home to his school?

$$\begin{aligned}
 1\text{km} &= 1000\text{m} \\
 3\text{km} &= (3 \times 1000)\text{m} \\
 &= \underline{\underline{3000\text{metres}}}
 \end{aligned}$$

15. Circle all the odd numbers in the list below and write them down.

102, 104, (105), 106, (107)

Odd Numbers 105, 107

16. Joan bought $1\frac{1}{2}$ dozen of pencils. How many pencils did she buy?

1 dozen = 12 pencils

$$1\frac{1}{2} \text{ dozen} = \frac{3}{2} \times \frac{6}{1}$$

$$= 3 \times 6$$

$$= \underline{\underline{18 \text{ pencils}}}$$

17. Given that  represents 600 books. How many books are shown below?



$$1 \text{ book} = 600 \text{ books}$$

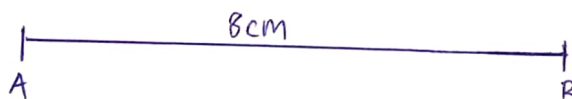
$$4 \text{ books} = 600 \times 4$$

$$= \underline{\underline{2400 \text{ books}}}$$

$$600 + 600 + 600 + 600$$

$$= \underline{\underline{2400 \text{ books}}}$$

18. Using a ruler and a sharp pencil only, draw a straight line AB of 8cm in the space provided below.

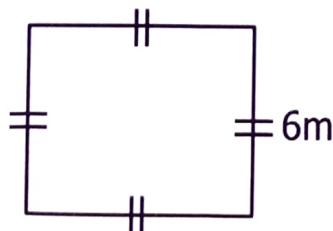


19. Round off 671 to the nearest tens.

$$\begin{array}{r} 671 \\ + 01 \\ \hline 670 \end{array}$$

$$\therefore 671 \approx \underline{\underline{670}}$$

20. Find the area of the quadrilateral below.



$$A = 5 \times 5$$

$$A = 6 \times 6$$

$$A = 36 \text{ m}^2$$

SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets.

21. Below is a calendar for May, 2023. Study it and use it to answer questions that follow.

2023 MAY						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
7	8	9	10	11	12	13 1
14 2	15 3	16 4	17 5	18 6	19 7	20 8
21 9	22 10	23 11	24 12	25 13	26 14	27 15
28	29	30	31			

- (a) On which day of the week did the previous month end? (01 Mark)

On Sunday

- (b) If today is Friday 12th May, 2023. What day of the week will it be after 15 days? (02 Marks)

It will be 27th Saturday, May, 2023

- (c) Musa goes for Juma prayers every Friday, How many times did he go for prayers in the month of May? (01 Mark)

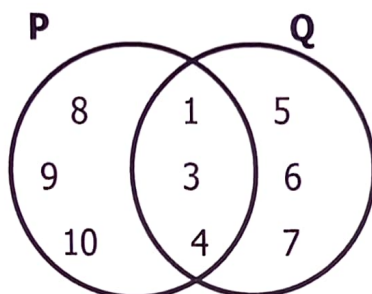
4 times

- (d) Given that Villa Road Primary School holds assemblies every Monday, how many assemblies did they hold in the above month?

5 assemblies

(01 Mark)

22. Study the Venn diagram below and use it to answer questions that follow.



(a) List all the members of Set Q. (01 Mark)

Set Q = { 1, 3, 4, 5, 6, 7 }

(b) Find

(i) $n(P \cup Q)$ (02 Marks)

$$P \cup Q = \{ 8, 9, 10, 1, 3, 4, 5, 6, 7 \}$$

$$n(P \cup Q) = 9 \text{ elements}$$

(ii) $n(P - Q)$ (02 Marks)

$$P - Q = \{ 8, 9, 10 \}$$

$$n(P - Q) = 3 \text{ members}$$

23. Brian went to the market and bought the following items.

2kg of salt at sh.1000 each kg

A bar of soap at sh.8000

$\frac{1}{2}$ kg of sugar at sh. 1800

(a) How much did he pay for the items above? (03 Marks)

<p><u>Salt</u></p> <p>sh. 1000 x 2</p> <p>= sh. 2000</p>	<p><u>Total</u></p> <p>sh. 2000</p> <p>+ sh. 8000</p> <p>sh. 1800</p> <hr/> <p>sh. 11,800</p>
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(b) If he had sh.15000, how much money did he remain with?

$$\begin{array}{r}
 \text{sh. } 15000 \\
 - \text{sh. } 11800 \\
 \hline
 \text{sh. } 3200
 \end{array}$$

(02 Marks)

24. The table below shows marks scored by a P.4 pupil in a test.

Subject	ENG	MTC	SCI	SST	RE
Marks	90	85	60	80	70

- (a) Find the difference between the highest mark and lowest mark.

(02 Marks)

$$\begin{array}{r} 90 - 60 \\ = 30 \\ \hline \end{array}$$

- (b) In how many subjects did the pupil score above 80?

(01 Mark)

2 subjects

- (c) Find the total marks in the test.

(02 Marks)

$$\begin{array}{r} (90 + 85) + (60 + 80) + 70 \\ (175 + 140) + 70 \\ = 315 + 70 \\ = 385 \\ \hline \end{array}$$

25. The water metre reading at Mr. Musa's home at the beginning of the month was 0273 and at the end of the month the reading was 0325.

- (a) How many units of water did he use that month?

(02 Marks)

$$\begin{array}{r} 0325 \\ - 0273 \\ \hline 52 \text{ units} \\ \hline \end{array}$$

- (b) If each unit costs sh.1200, how much money did he pay for all the units of water they used in that month?

(02 Marks)

$$\begin{array}{r} 1 \text{ unit} = \text{sh. } 1200 \\ 52 \text{ units} = \text{sh. } 1200 \times 52 \\ \text{sh. } 62,400 \\ \hline \end{array}$$

26. Kirabo is 13 years younger than her brother who is 30 years.

(a) How old is Kirabo?

(02 Marks)

$$\begin{array}{l} (30-13) \text{ years} \\ \underline{\underline{17 \text{ years}}} \end{array}$$

(b) Write their total age in Roman Numerals.

(02 Marks)

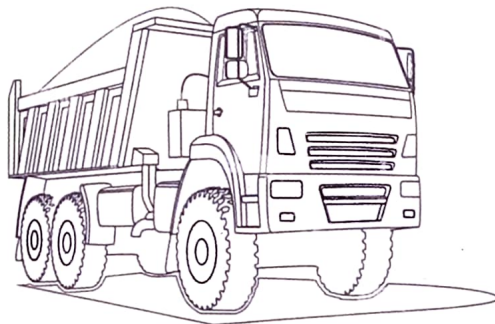
$$\begin{array}{l|l} (30+17) & \text{In Roman Numerals} \\ 47 \text{ years} & \begin{array}{l} 40 + 7 \\ \downarrow \quad \downarrow \\ XL \quad VII \\ = XLVII \text{ years} \end{array} \end{array}$$

(c) How old was Kirabo's brother 12 years ago?

(02 Marks)

$$\begin{array}{l} (30-12) \\ = \underline{\underline{18 \text{ years}}} \end{array}$$

27. The truck below weighs 1200kg when empty.



(a) The truck was loaded with sand and its total weight became 3200kg. How much sand was loaded on the truck?

(02 Marks)

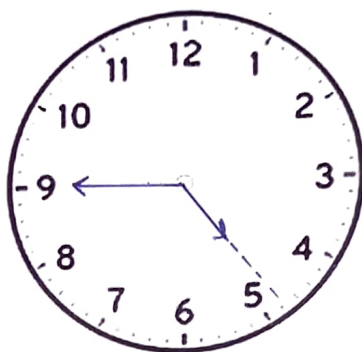
$$\begin{array}{r} 3200 \text{ kg} \\ - 1200 \text{ kg} \\ \hline \underline{\underline{2000 \text{ kg}}} \end{array} \text{ of sand was loaded.}$$

(b) Find the total weight of the truck when it's $\frac{1}{2}$ full of sand. (02 Marks)

$$\begin{array}{l|l} \frac{1}{2} \times 2000 & \text{Total weight} \\ 1000 & 1000 \text{ kg} + 1200 \text{ kg} \\ = 1000 \text{ kg} & = \underline{\underline{2200 \text{ kg}}} \end{array}$$

28. (a) Show a quarter to 5 o'clock on the clock face below.

(02 Marks)



- (b) Express a week into hours.

(02 Marks)

$$\begin{aligned}
 1 \text{ week} &= 7 \text{ days} \\
 1 \text{ day} &= 24 \text{ hours} \\
 7 \text{ days} &= 24 \times 7 \\
 &= \underline{\underline{168 \text{ hours}}}
 \end{aligned}$$



29. (a) Work out the sum of the value of **7** and the value of **3** in the number **7539**.

(03 Marks)

$ \begin{array}{r} \text{Th} \quad \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 5 \quad 3 \quad 9 \\ \begin{array}{l} \text{---} 3 \times 10 = 30 \\ \text{---} 7 \times 1000 = 7000 \\ \text{---} \underline{\underline{7030}} \end{array} \end{array} $	$ \begin{array}{r} \text{Sum} \\ 7000 + 30 \\ \hline 7030 \end{array} $
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- (b) How many groups of 100 can be got from the value of 5 from the above number?

(02 Marks)

Value of 5

$$5 \times 100$$

$$= 500$$

Groups of 100

$$\begin{array}{r}
 500 \\
 \hline
 100
 \end{array}$$

$$= 5 \text{ groups}$$

30. When Mr. Ayena invited guests to his party, among the 9000 people that turned up, 3461 were women, 2198 were men and the rest were children.

- (a) How many children attended Mr. Ayena's party? (02 Marks)

$$9000 - (3461 + 2198)$$

$$9000 - 5659$$

$$\underline{\underline{3,341 \text{ children}}}$$

- (b) Find the number of adults that turned up at the party. (02 Marks)

Adults

$$3461$$

$$+ 2198$$

$$\underline{\underline{5,659 \text{ adults}}}$$

- (c) If each person that came at the party was served with a bottle of soda, how many crates of soda were served if each crate had 30 bottles of soda? (02 Marks)

$$\begin{array}{r} 300 \\ 9000 \\ \hline 30 \end{array}$$

$$\underline{\underline{= 300 \text{ crates}}}$$

31. (a) Workout: $\frac{5}{8} + \frac{2}{8} - \frac{4}{8}$. (02 Marks)

$$\left(\frac{5}{8} + \frac{2}{8} \right) - \frac{4}{8}$$

$$= \frac{7}{8} - \frac{4}{8}$$

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

- (b) Convert $2\frac{1}{3}$ to an improper fraction. (02 Marks)

$$\begin{array}{l} \frac{D \times N + N}{D} \\ = \frac{(3 \times 2) + 1}{3} \\ = \frac{6 + 1}{3} \end{array} \quad \bigg| \quad = \underline{\underline{\frac{7}{3}}}$$

- (c) Samson had one big bread, he gave $\frac{5}{8}$ of it to Doreen.

What fraction of the bread did Samson remain with? (02 Marks)

$$= \frac{8}{8} - \frac{5}{8}$$

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

32. In the boxes below, fill in the correct missing numbers following the instructions given. (05 Marks)

(i) Even numbers: 0, 2, 4, 6.

(ii) Odd numbers: 1, 3, 5, 7, 9.

(ii) Prime numbers: 2, 3, 5, 7, 11.

END