



## MATHEMATICS EXAMINATION

### PRIMARY SIX END OF TERM II 2023

Time allowed: 2 hours 30 minutes

Name: .....

School: .....

Read the following instructions carefully.

1. The paper has two sections A and B.
2. Section A has 20 short questions (40 Marks)
3. Section B has 12 questions (60 Marks)
4. Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black Ball-point pen or ink. Only diagrams and graph Work may be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot be easily read, may lead to loss of mark.

FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		



Teacher's comment to the pupil.

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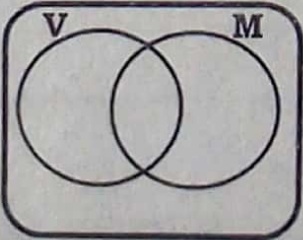
**PREPARED BY,**



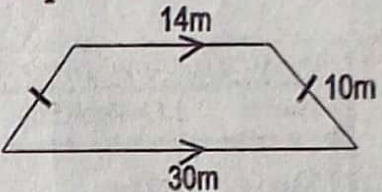
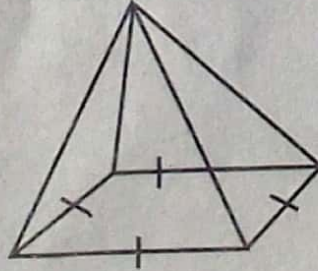
**CENTRAL EDUCATIONAL CONSULT:**



# SECTION A. (40MARKS)

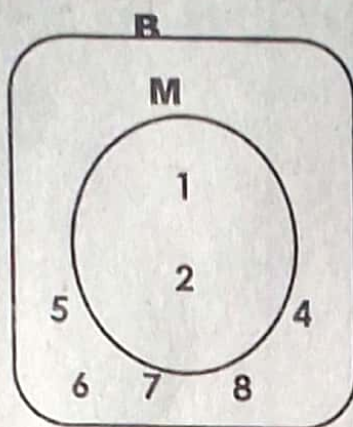
1.	Workout: $42 + 57$ .	6.	Simplify: $9k + 7 - 5k$
2.	Write in figures: <b>Seventy thousand, ninety</b>	7.	A phone sold for <b>sh. 167000</b> was bought at <b>sh. 139000</b> . Calculate the profit on the phone
3.	Simplify: $+2 + -5$	8.	Change <b>1250g</b> to <b>kg</b> .
4.	Find the value of <b>9</b> in <b>359608</b> .	9.	Divide: $1\frac{1}{2} \div \frac{2}{3}$
5.	<p>In the venn diagram below, shade the complement of set <math>V \cap M</math>.</p> <p style="text-align: center;"><math>\Sigma</math></p>  <div style="text-align: right;"><input type="checkbox"/></div>	10	<p>Draw beads for <b>6052</b> on the abacus below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <b>TH</b>   <input type="text"/> </div> <div style="text-align: center;"> <b>H</b>   <input type="text"/> </div> <div style="text-align: center;"> <b>T</b>   <input type="text"/> </div> <div style="text-align: center;"> <b>O</b>   <input type="text"/> </div> </div> <div style="text-align: right;"><input type="checkbox"/></div>



11	A motorist left town <b>V</b> at <b>9.45am</b> for town <b>P</b> and took <b>2h30min.</b> At what time did the motorist arrive in town <b>P</b> ?	15	Solve: $x - 7 = 3$
12	Find the product of <b>372</b> and <b>13</b> .	16	Find the distance around the shape below 
13	Find the next number in the sequence.  <b>50, 48, 45, 40, _____</b>	17	<b>5girls</b> can do a piece of work in <b>8days</b> . How many days will <b>4girls</b> working at same rate take to do the same piece of work?
14	Name the geometric solid figure shown below.  	18	Nakuya scored the following marks in an English test: <b>40%, 28%, 58% and 72%</b> . Find the range of Nakuya's scores.



19 How many elements are in set  $M'$



20 Find the complement of  $35^\circ$ .

### SECTION B. (60 MARKS)

21 Study and complete Betty's shopping bill below. (05marks)

Item	Quantity	Unit cost	Amount
Meat	2kg	Sh. 13000 per kg	Sh. _____
Rice	_____ kg	Sh. 5000 per kg	Sh. 2,500
Sugar	3kg	Sh. _____ per kg	Sh. 18,000
Soap	$\frac{1}{2}$ bar	Sh. _____ a bar	Sh. _____
Total expenditure			Sh. 50,000

22 (a) Find the 12<sup>th</sup> triangular number

(02marks)



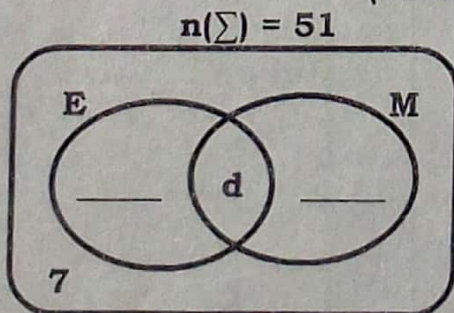
(b) Find the least number of books that can be shared by 6 or 9 pupils without leaving any remainder. (03marks)

23 (a) Increase 9000 in the ratio of 4:3. (02marks)

(b) Julian and Jasper shared 23 pancakes in the ratio of 2:3 respectively. How many pancakes did each get? (03marks)

24 In a class of 51 pupils, 35 pupils like mathematics (M), 20 pupils like English (E), d pupils like both subjects while 7 dislike the two subjects.

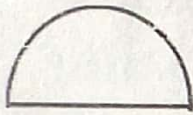
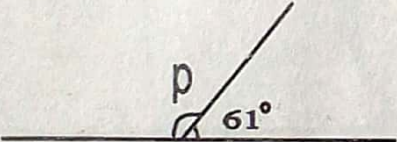
(a) Use the above information to complete the venn diagram. (02marks)



(b) Find the value of d. (02marks)

(c) What is the probability of randomly choosing a pupil who likes Mathematics only to be the class monitor? (01mark)



25	<p>(a) Workout: <b>Weeks</b>      <b>Days</b></p> <table><tr><td>6</td><td>1</td></tr><tr><td>- 3</td><td>5</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td colspan="2"><hr/></td></tr></table> <p>(02marks)</p>	6	1	- 3	5	<hr/>		<hr/>		<p>(b) A driver took <b>2hours</b> to cover a certain distance at a speed of <b>55km/h</b>. Calculate the distance covered. (02marks)</p>
6	1									
- 3	5									
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26	<p>(a) How many symmetry lines does the shape below have? (02marks)</p>  <p>(b) Find the size of angle <b>p</b> in degrees. (02marks)</p>  <p>(c) What smaller angle is formed between North and South West direction? (02marks)</p>	<p>27</p> <p>(a) Solve: <math>\frac{2}{7}m = 8</math> (02marks)</p> <p>(b) If <b>m = 3</b> and <b>n = 17</b>, find the value of;</p> <p>(i) <b>n + m</b> (01mark)</p> <p>(ii) <b>mn</b> (02marks)</p>								



(b) How many **500ml** cups can completely fill a **9litre** container. (02marks)

31 (a) Draw tallies for **17 trees**.  
(02marks)

(b) Workout the average of **42, 65, 30, 58 and 75**. (03marks)

32 (a) Using a ruler, a pencil and a pair of compasses only, construct a rectangle **READ** in which **RE=7cm** and **EA=4cm**. (04marks)

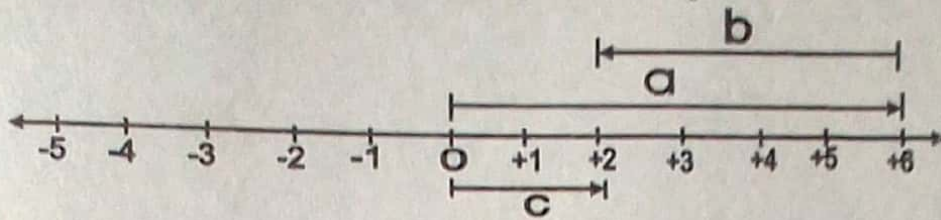
(b) Measure diagonal **RA**.

(01mark)

-End-



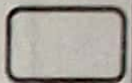
- 28 Use the number line below to answer the questions that follow.



(a) Write down the interger shown by arrow; (01mark each)

(i) a \_\_\_\_\_ (ii) b \_\_\_\_\_ (iii) c \_\_\_\_\_

(b) Write down the mathematical statement shown the above number line. (02marks)



- 29 In a class of **320pupils**,  $\frac{5}{8}$  are girls and the rest are boys.  
(a) How many girls are there? (02marks)

(b) If  $\frac{5}{6}$  of the boys are below **14years**, how many boys are above **14years**? (03marks)

- 30 (a) Find the area of the shape **ABCDE** below. (03marks)

