

# GOLDENBELLS PRIMARY SCHOOL

## POST MOCK EVALUATION TEST 2023

### MATHEMATICS

*Time allowed: 2 hours 30 minutes*

Index No.

--	--	--	--	--	--	--	--	--

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

Read the following instructions carefully:

- The paper has **two** sections: **A** and **B**  
Section **A** has 20 short questions (40 marks)  
Section **B** has 12 questions (60 marks)  
The paper has **10 printed pages** altogether.
- Answer **ALL** questions. All working to both Sections A and B must be written in the spaces provided.
- All answers must be written using **only** a blue ball point pen. Only diagrams should be drawn in pencil.  
Any work done in pencil other than graphs and diagrams will **not** be marked.
- Unnecessary **changes** in your work may lead to **loss** of marks.
- Any handwriting that **cannot** be easily read may lead to **loss** of marks.
- Fill in your previous and target mark after you have finished answering all questions.
- Do **not** fill anything in the boxes indicated for **“Examiner’s use only.”**

PREVIOUS MARK	
TARGET MARK	

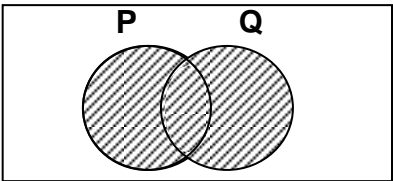
FOR EXAMINER’S USE ONLY		
SEC: A	SEC B	TOTAL

**Turn over**

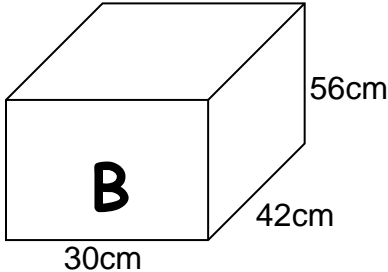
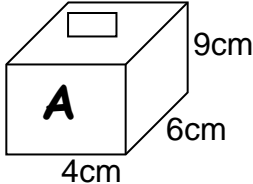
## SECTION: B

**Answer all the questions in this section**

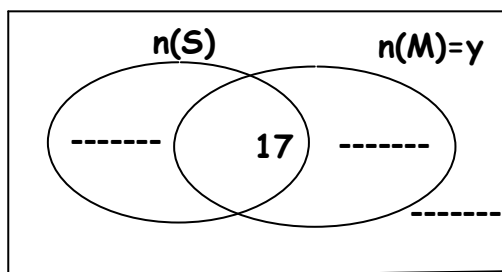
**Questions 1 to 20 carry two marks each**

1.	Multiply: $0.4 \times 0.2$ .	5.	The circumference of a circle is 88 cm find its radius.
2.	Given that set $T = \{C, O, V, I, D, 19\}$ , find the number of subsets in set T.	6.	A thief broke into the house at four minutes to mid-night, Express this time in a 12-hour clock system.
3.	Two numbers, 27 and 36 have a Lowest Common Multiple(LCM) of 108. Find their GCF.	7.	The average weight of 5 boys is 48kg. When a sixth boy joins them average weight becomes 45kg. What is the weight of the sixth boy?
4.	Describe the unshaded part of the diagram below. 	8.	Otim bought a watch at sh.20,000 and sold it at a profit of 20%. At what price did he sell the watch?

9.	Round off 69.96 to nearest tenths	13.	Express 0.00456 in scientific notation.
10.	Subtract $2x - 4$ from $5x - 4$	14.	Work out $3 - 4 = \dots\dots\dots$ (finite 7)
11.	Find the sum of the next two numbers in the sequence: 1, 2, 6, 15, _____, _____	15.	Find the solution set for $2k - 2 \geq 6$ .
12.	3 men can do a piece of work in 6 days. How many less days will 9 men take to do the same piece of work?	16.	What percentage of 3kg is 450g?

13.	Increase 600 in the ratio of 4:3	18.	Change $37_{ten}$ to binary base.
19.	Solve: $5 - 2(x - 3) = 5$	20.	Work out the mean of $3k$ , $15$ , $4k - 3$ and $k + 8$
<p style="text-align: center;"><b>SECTION: 60 MARKS</b>  <b>Marks for each question are indicated in brackets</b></p>			
21.	<p>Below is a ballot box A and a big collection box B in which ballot boxes of size A from different polling stations were packed before being taken to the district tallying centre.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>30cm      42cm      56cm</p> </div> <div style="text-align: center;">  <p>4cm      6cm      9cm</p> </div> </div>		
a)	How many ballot boxes A were packed in collection box B? <b>(02 marks)</b>	b)	Calculate the space left empty in the collection box B after packing it with ballot boxes A. <b>(03 marks)</b>

22. At a birthday party, 72 guests were invited. 55 were served with sodas(S), y were served with mineral water(M) while 7 did not take any of the two drinks and 17 were served with both drinks. (a) Use the given information to complete the Venn diagram below. **(03 marks)**



(b) Find the value of y?

**(02 marks)**

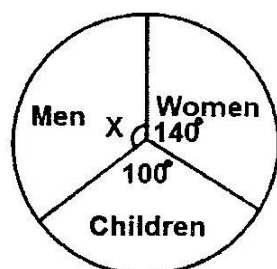
(c) How many guests were served with one drink only?

**(01 mark)**

23. (a) The interior angle of a regular polygon is  $100^\circ$  more than its exterior angle. Name the polygon. **(03 marks)**

- (b) Calculate its interior angle sum. **(02 marks)**

24. The chart below shows the number of people who watched G.B.S inter House competitions in 2019.



(a) Find the value of x.

**(02 marks)**

	<p>(a) If 240 people were men. How many people watched the competition? <span style="float: right;"><b>(02 marks)</b></span></p> <p>(b) Find the percentage of children that watched the competition. <span style="float: right;"><b>(01 mark)</b></span></p>
25.	<p>Matsiko used <math>\frac{1}{4}</math> of his earnings to buy food, <math>\frac{1}{2}</math> of the remainder to pay rent and saved the rest. If he saved sh.12,000, how much is his earnings? <span style="float: right;"><b>(04 marks)</b></span></p>
26.	<p>Ssalongo went to the supermarket and bought the following items:</p> <p>2 <math>\frac{1}{2}</math> Kg. of millet at sh.2000 per Kg  500 gm of sugar at sh. 4000 per Kg.  2 Kg of meat at sh. 12,000  30 apples at sh.500 for every 6 apples</p> <p>a) Calculate his total expenditure <span style="float: right;"><b>(04 marks)</b></span></p> <p>(b) If he had sh.6,000 as his balance, how much did he have at first? <span style="float: right;"><b>(01 mark)</b></span></p>

27.

Peter packs milk in packets of 750ml each and then delivers 285 litres to the nearby dairy for sale.

a)

How many packets of milk does Peter deliver to the dairy?

(02 marks)

b)

If Peter rides on a motorcycle while taking the milk to dairy travelling at a speed of 27km/hr for two hours, at what speed must he ride to come back to cover the same distance in 1½ hours?

(03 marks)

28.

Below is a class time-table for p.7

FROM	8:30 a.m	9:10 a.m	9:50 a.m	10:30 a.m	11:00 a.m	11:40 a.m	12:20 p.m	1:00 p.m	2:10 p.m	2:50 p.m	3:30 p.m
TO	9:10 a.m	9:50 a.m	10:30 a.m	11:00 a.m	11:40 a.m	12:20 p.m	1:00 p.m	2:10 p.m	2:50 p.m	3:30 p.m	4:30 p.m
MON	ENG	MTC	CAPE1	B	ENG	ENG	LIB	L	RE	CAPE1	G
TUE	MTC	SST	RE	R	ENG	CAPE3	CAPE3	U	SST	LIB	A
WED	SCI	SCI	CAPE2	E	SST	MTC	LL	N	CAPE1	ENG	M
THUR	MTC	SST	MTC	A	LL	SCI	RE	C	SCI	SST	E
FRI	SCI	SCI	CAPE2	K	MTC	MTC	LIB	H	ENG	CAP	S

a)

At what time does lunch break start?

(01 mark)

a)

How long is local language(LL) on Thursday?

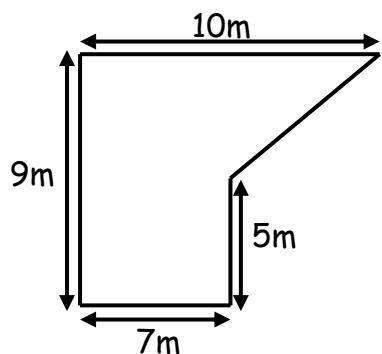
(02 marks)





30.

Study the figure below and use it to answer the questions that follow.



a) Calculate the area of the figure.

**(02 marks)**

b) Work out the perimeter of the figure.

**(03 marks)**

31.

The table below shows the rates at which different currencies were sold and bought at Mbarara forex bureau.

currency	Buying in Ug shs.	Selling in Ug shs.
1 US dollar (\$)	3,600	3,650
1 Euro (EURO)	4,000	4,020
1 Kenya shilling (K Sh)	4.0	5.0

a) Convert Ug shs.723,600 to Euros.

**(02 marks)**

b) How many US dollars can be exchanged for 328,500 Kenya shillings?

**(02 marks)**

32.

A PLE distributor drove from the district headquarters(DH) on a bearing of  $045^{\circ}$  to the sub-county headquarters(SH) for 65 km. He then turned south East to the Examination centre for 70km.

(a) Using a scale of 1cm to represent 10km, show the three places on an accurate diagram.

**(04 marks)**

b) Find the shortest distance between the district headquarters and the examination centre in Km.

**(01 mark)**

END