NTOROKO DISTRICT ACADEMIC BOARD

PRIMARY LEAVING MOCK - 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name:.....

Candidate's Signature:.....

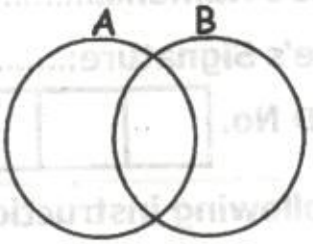
District ID No. | | | | |

Read the following instructions carefully:

1. Do not write your **school** or **District name** anywhere on this paper.
2. Section **A** has **20** questions **(40 marks)**
3. Section **B** has **12** question **(60 marks)**
   Attempt **ALL** questions.
   All answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **MUST** be written using **blue** or **black** ball – point pen or **ink**. Diagrams should be drawn in **pencil**.
5. Unnecessary **changes** of work may lead to loss of marks.
6. Any handwriting that cannot easily be read may lead to **loss** of marks.
7. Do not fill anything in the boxes indicated **"For examiner's use only".**

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A (40 Marks)

1.	Add: 13 + 8	2.	Express 105 in Roman Numerals.
3.	Find the next two numbers in the sequence; 1, 4, 9, 16, _____, _____.	4.	Shade $(A \cap B)'$. 
5.	Find the square of 36.	6.	Simplify: $^{-}3 - {}^{+}5$
7.	What day of the week shall it be 42 days from now if today is a Tuesday?	8.	Find the mean of $2x$, 14, $6x$ and 6.

9.	Order the following integers in ascending order. $^{-}1$, $^{-}6$, 0, $^{-}4$, 3 and 5	10.	Express 18km/hr to m/sec.
11.	Workout: 1818 ÷ 3	12.	Find the area of the figure below. (Take $\pi = \frac{22}{7}$)  14cm
13.	Workout: $1\frac{1}{2} + \frac{1}{3}$	14.	Express 12 : 40pm in 24hour clock system.

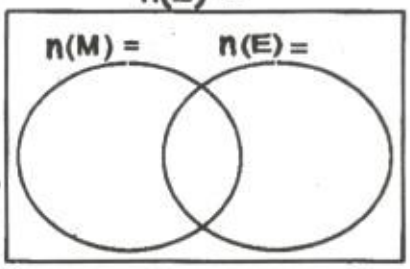
15.	Increase **shs. 200** in the ratio **5 : 4.**	**16.**	**5** men take **6** days to do a **piece** of work. How many **more** days will **3** men **take** to do the **same** piece of **work** working at the **same rate**?
17.	Use a pair of **compasses**, a **ruler** and a **pencil** only to **construct** an **angle** of 75^0.	**18.**	Shade $\frac{1}{3}$ of the **figure** below. 
19.	Write **0.00769** in **standard** form.	**20.**	Calculate the **percentage profit** made on a **text** book bought at **sh. 12,000** and later **sold** at **shs. 15,000.**

SECTION B: (60 Marks)

21. In a class of **50** pupils at New Hope Primary School, **30** pupils like Maths **(M)**, **25** pupils like English **(E)** and **n** pupils like **both** subjects.

(a) Represent the above **information on** the **venn** diagram below. **(2marks)**

$n(\Sigma)$ =



(b) If a pupil is **picked** at **random**, what is the **probability** that he/she likes **both** subjects? **(3marks)**

22. (a) Workout: $\frac{0.45 + 0.27}{1.2}$ **(3marks)**

(b) Arrange the following **fractions** in **descending** order. **(3marks)**

$\frac{2}{3}$, $\frac{3}{4}$ and $\frac{2}{5}$

23. Two bells ring at intervals of **30** and **40** minutes **respectively** to change the **lessons**. If they **first** ring **together** at **8:30am**, at what **time** will they **ring** together **again**? **(5marks)**

24. **Study and complete Bwambale's shopping bill.**

Item	Quantity	Unit cost	Amount
Sugar	3kg	shs. _____ per kg	shs. 14400
Rice	_____ **kg**	shs. 5000 per kg	shs. 2500
Milk	250 mls	shs.3000 per litre	**shs.** _____
Biscuits	2 packets	shs. _____ per pct	**shs.** _____
Total expenditure			**sh. 29650**

(5marks)

25.	Using a **ruler**, a **pencil** and a pair of **compasses** only, construct a **Rhombus ABCD** where line **AB** = **BC** = **CD** = **DA** = 6cm and angle **DAB** = 60^{o}. **(4marks)**
26.	John travelled from town **A** to town **B** at a **speed** of **90km/hr** for $1\frac{1}{2}$ **hrs**. He **continued** to town **C** at a **speed** of **60km/hr** for **one** hour. Calculate the average speed for the whole journey. **(4marks)**

27. A regular **polygon** has **one** of the **exterior** angles as 45^0.

(a) Name the **polygon**. **(2marks)**

(b) What is the **sum** of the **interior** angles of the **polygon**? **(2marks)**

28. **The table below shows marks scored by pupils of Kibuuku P/S in a Mathematics test. Study it and answer questions that follow.**

Marks	80	75	90	60
Number of pupils	2	4	1	3

(a) How many **pupils** did the **test**? **(1mark)**

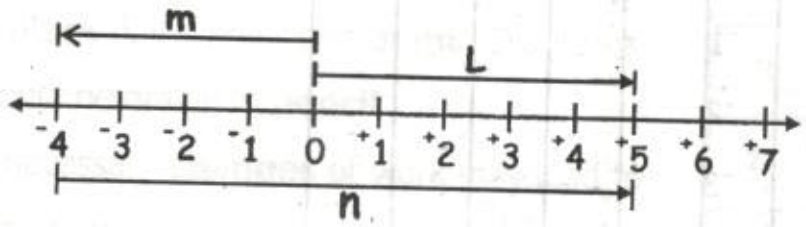
(b) Find the **median** mark. **(2marks)**

(c) Calculate the **average** mark. **(3marks)**

29. (a) Solve for x: $3 - x = 2x$ **(3marks)**

(b) Workout: $\frac{1}{2}n + 5 \geq 7$ and find the **solution** set for **n.** **(3marks)**

30. **Study the number line and answer the questions that follow.**

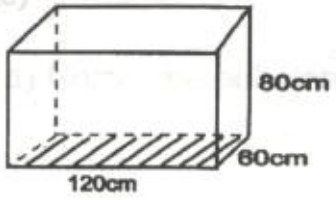


(a) Write the **integers** for; **(1mark each)**

(i) **m** = _____ (ii) **L** = _____ (iii) **n** = _____

(b) Write the **Mathematical statement** shown on the number line above. **(2 marks)**

31. **The diagram below is a cuboid. Use it to answer the questions that follow.**

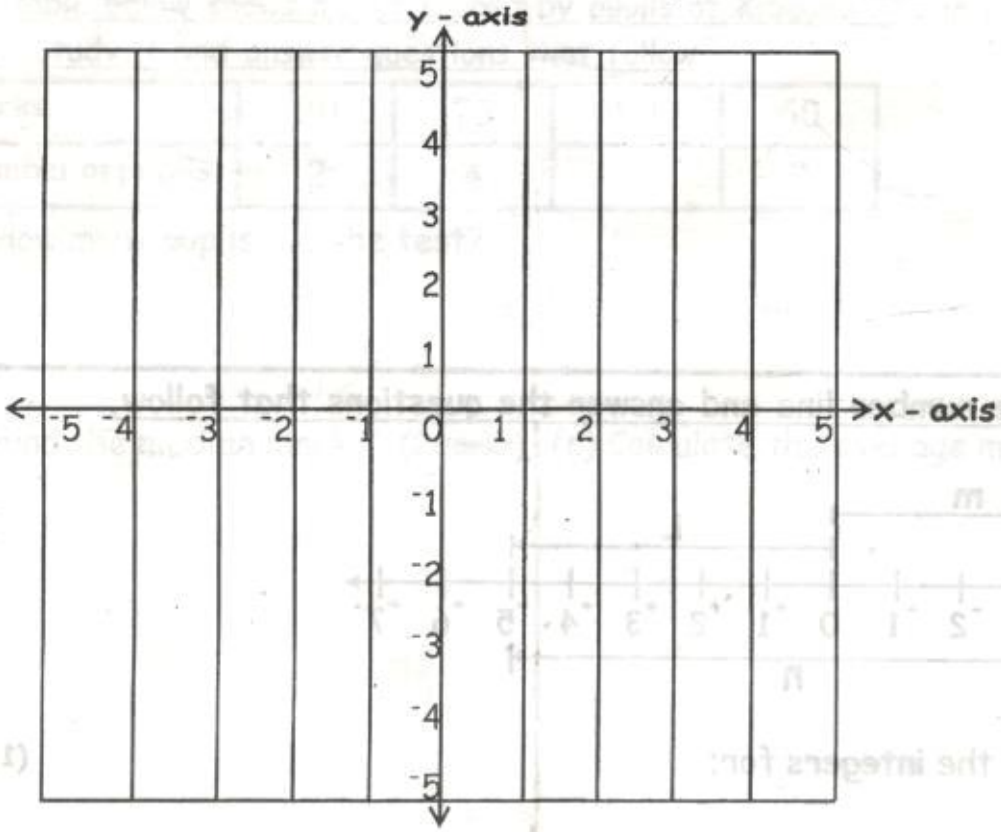


(a) Calculate the **base area** of the **cuboid.** **(2marks)**

(b) Workout the **capacity** of the **cuboid** above. **(3marks)**

32. (a) On the graph below, plot the points; **(5marks)**

A ($^{-}2$, $^{+}3$), B ($^{+}5$, $^{+}3$) C ($^{-}2$, $^{-}1$) D ($^{+}1$, $^{-}1$),



(b) Join A to B, B to D, D to C and C to A.

(c) Name the **quadrilateral** formed after **joining** the **points.**

THE END