WAKISO DISTRICT JOINT EXAMINATIONS BOARD

(WAKISO MAIN, KIRA, MAKINDYE AND NANSANA MUNICIPALITY)

PRIMARY SEVEN INTERNAL ASSESSMENT

2022

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.							Personal No.		

Candidate's Name: ....

Candidate's signature: ....

School Name: ....

District/Municipality: ....

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following Instructions Carefully:

1. This paper has two sections A and B.
2. Section A has 20 questions (40 marks).
3. Section B has 12 questions (60 marks).
4. Answer all questions. All the working for both sections A and B must be shown in spaces provided.
5. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
6. No calculators are allowed in the examination room.
7. Unnecessary changes and crossings in your work and handwriting that cannot easily be read may lead to loss of marks.
8. Do not write anything in the boxes indicated "For examiners' use only"

ORGANISED AND PUBLISHED BY: **WA.D.E.B**
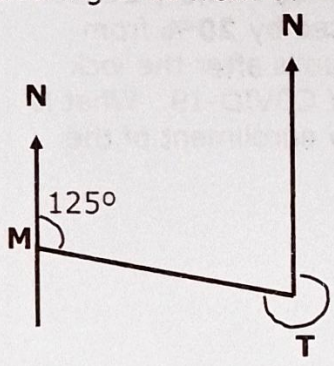
c2022 WA.D.E.B

SECTION A (40 Marks)

1.	Multiply: 2 3 X 2	2.	Simplify: ⁻5 - ⁻9
3.	Write "Four hundred two thousand, nine hundred three" in figures.	4.	A party started at 18:00 hrs and ended at 10 : 30 pm. For how long did the party last?

5. Express **CXLIV** in Hindu Arabic numerals.

6. Using a pencil, a ruler and a pair of compasses, construct an angle of **135°** in the space provided below.

7.	If today is Saturday, what day of the week will it be 47 days to come?	8.	Use the figure below to find the bearing of **M** from **T**.

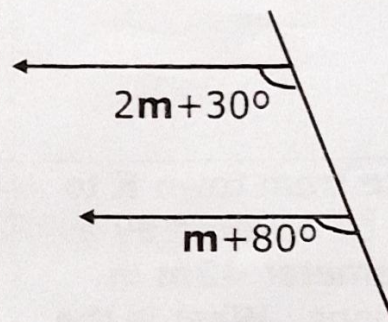| 9.	The distance from town **K** to town **L** can be covered by a wheel of diameter **42m** in 102 revolutions. What is the distance between town **K** and town **L**?	10.	Multiply: 101_{two} by 11_{two}.

|			
11.	The number of pupils in Namatimbo Primary School decreased by **20%** from 1250 pupils after the lock down of COVID-19. What is the new enrollment of the school?	12.	Fill in the missing number and calculate the mean of the even numbers in the sequence. 81, 64, 49, 36, _____
13.	Given that **K = 6, L = ⁻2** and **M = 4**. Find the value of $$\frac{(K - L)}{M}$$	14.	Find the value of **m** in the figure below. 2m+30° m+80°
15.	Round off 8.788 to one place of decimal.	16.	The volume of the box is 320cm³. Find the value of **h**. 8 cm h 10 cm
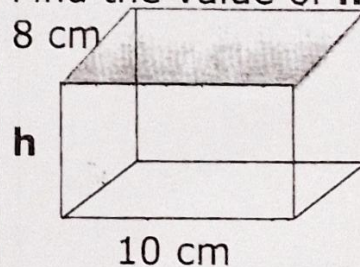
17.	Work out: $(3.5 \times 12) + (3.5 \times 18)$	18.	Simplify: $7x - 3(x - 2)$
19.	Change 23_{five} to decimal base.	20.	Simplify: $\dfrac{5}{12} + \dfrac{1}{4}$

SECTION B: (60 Marks)

21. In a sports club **(2n + 4)** people like playing football **(F)** only, **40** people like playing volleyball **(V)**, **12** like playing both football and volleyball while **(n + 2)** people like playing other games.

(a) Use the information above to complete the Venn diagram below.

$\cap (\varepsilon) =$

n(F)=_____   n(V)=40

2n+4 (12) ____

n+2

(2Mrks)

	(b)	If 30 people like playing football, find the value of n.	(c)	Find the probability that a person picked randomly from the club likes playing other games.

(1Mrk) (2Mrks)

22. The table below shows a list of prices for different items in Mityana market which were bought by Mr. Ogudi.

(a) Complete the table.

ITEM	QUANTITY	UNIT COST	AMOUNT
Beans	4 kg	Sh.4200	Sh. _____
Sugar	7 ½ kg	Sh. _____	Sh.27,000
Soap	_____ bars	Sh.8000	Sh.96,000
Salt	1500 grammes	Sh. _____	Sh. 3,000

(4Mrks)

(b) If Mr. Ogudi was given a discount of 10%, how much money did he pay for all the items?

(2Mrks)

23.	The mother is 48 years older than his son. In four years time, the mother will be twice as old as her son.	(b)	Calculate their total age 8 years ago.
(a)	How old is the son now?		
	(3Mrks)		(1Mrk)
24.	Mutasubwa took 2 ½hours to drive from Kiboga to Kampala at a steady speed of 60km/hr. He returned to Kiboga at a steady speed of 45 km / hr. How far is Kampala from Kiboga?	(b)	Calculate the average speed for the whole journey.
	(2Mrks)		(2Mrk

25. Pupils in Namamonde Primary School did a test and scored marks as shown in the table below.

Marks	80	45	P	50
Number of pupils	4	3	6	2

(a) How many pupils did the test?

(1M

(b)	Find the value of **P** if the mean mark was 61.	(c)	Calculate the range of the marks.
			(1Mrk)
	(3Mrks)		
26.	Simplify: $\dfrac{2.8 + 0.8}{1.8 \ x \ 0.01}$	(b)	Express 0.7272... as a simplified common fraction.
	(3Mrks)		(2Mrks)
27.	The exterior and interior angles of a regular polygon are in the ratio of 2:3 respectively. (a) Name the polygon.	(b)	Calculate the interior angle sum of the polygon.
	(4Mrks)		(1Mr

28. The figure below is a triangle with length **ST** = 12 cm. Use it to answer the questions about it.

(a)
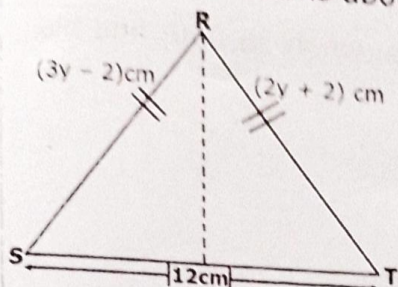
Find the value of y.

(2Mrks)

(b) Calculate the area of the triangle **RST**.

(3Mrks)

29. Solve: $P - \dfrac{1}{6}P = 5$

(b) Solve: $2(3x-2) - 2(6x+9) = 8$

(3Mrks)

(3Mrks)

30. Construct a parallogram **PQRS** where **QR = 7 cm**, Angle **PQR = 60°** and **PQ = 4 cm**. Drop a perpendicular line from point **P** to meet line **QR** at **M**.

(5Mrks)

(b)	Measure line **PM**.
	(1Mrk)

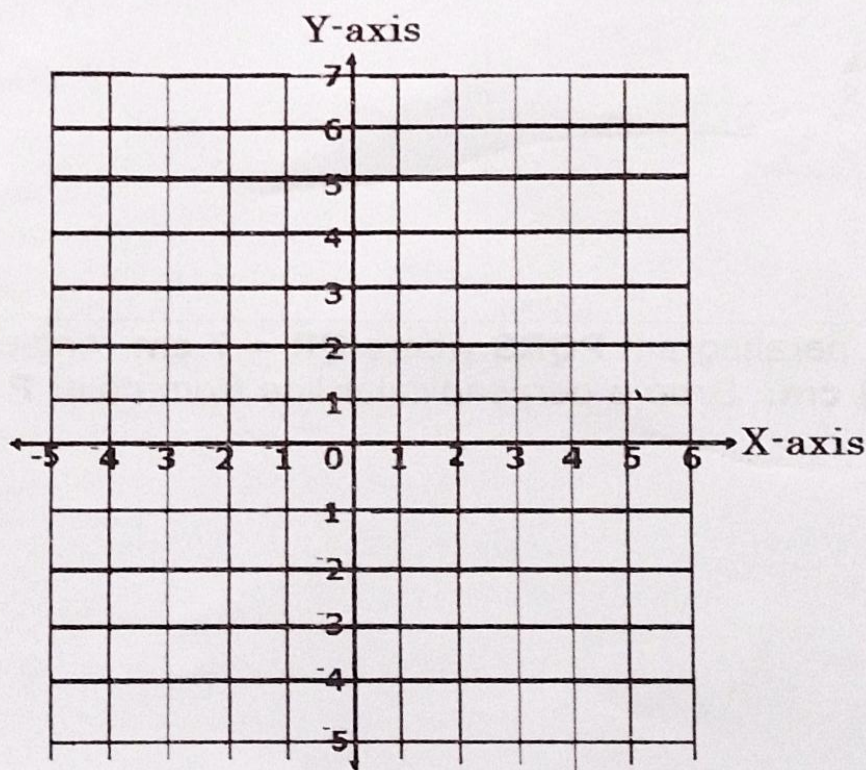| 31.	Oketch used 25% of her salary on food, $\frac{1}{2}$ of the remainder on medical and saved the rest. What fraction of his salary did he spend on medical?	(b)	If he saved sh.36,000, find his salary.
	(2Mrks)		(2Mrks)

32. Plot the following points on the grid below **A**(-1, 6), **B**(⁻1, ⁻2) **C**(3, ⁻2) and **D**(3, 2).

(4Mrks)

Y-axis / X-axis coordinate grid

(b) Name the figure formed.

(1Mrk)