THE JEROX END OF TERM I EXAMINATION 2023

Primary Seven Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

NAME _____ SIGNATURE_____

SCHOOL _____ DISTRICT_____

STREAM_____

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections A and B

2. Section A has 20 questions (40 marks) and
   Section B has 12 questions (60 marks)

3. Answer all questions in both sections A and B.

4. All answers must be written in the spaces
   provided in BLUE or BLACK ink.
   Only diagrams should be drawn in pencil.

5. Unnecessary crossing will lead to loss of marks

6. Poor handwriting, which cannot be easily read
   may lead to loss of marks.

FOR EXAMINER'S USE ONLY

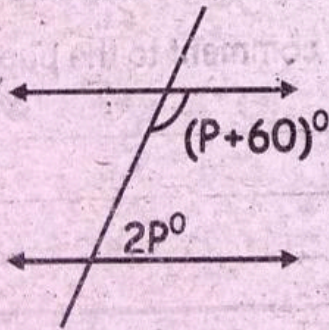| SECTION	SCORES	REMARKS
A		
B		
TOTAL		

Teacher's comment to the pupil

_____

_____

_____

1	Divide: $36 \div 3$	2	Convert $1\frac{1}{2}$ kg to grammes.

3	Given that: $A \cup B = \{1,2,3,4,5,6,7,8\}$ $B \cap A = \{1,4,7\}$ $A^I = \{5,6,8\}$ List the elements of set A.	4	Solve: $\frac{2}{3}P - 4 = 6$

5	Workout: $^-5 + {}^+7$	6	Round off **4928** to the nearest hundreds.

77	Calculate the size of angle marked P in the diagram below. $(P+60)^0$ $2P^0$	8	The cost of **11** counter books is sh.**13200**. Calculate the cost of a half dozen of books at the same rate.

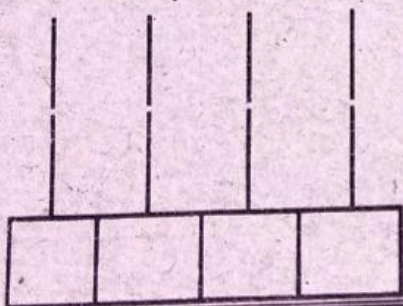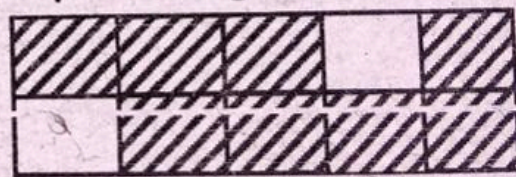|			
9	Workout the sum of the next two numbers in the sequence below. **7, 8, 12, 21** , _____ , _____	**10**	Calculate the value of the digit in the thousands place value in **48276**.
11	Calculate the circumference of a circle whose diameter is **28dm**.	**12**	Find the Greatest Common Factor of **18** and **27**.
13	A man bought a radio at shs. **30,000** and later sold it at sh.**24000**. Calculate the loss he made.	**14**	Sebulime covered $\frac{3}{5}$ of the journey and still had **30km** to cover. How long was the journey?
15	Show **1011**₂ on the abacus. _(abacus diagram)_	**16**	What percentage is unshaded? _(shaded rectangle diagram)_
17	Increase sh.**12000** by **20%**.	**18**	Using a ruler, a pencil and a pair of compasses only, construct an angle of **45°**.

19	Workout: $\frac{1}{2} - \frac{1}{4} + \frac{3}{5}$	20	Calculate the length of AC in the right angled triangle below.

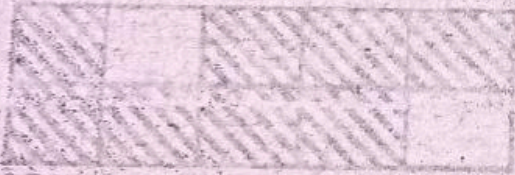20 Calculate the length of AC in the right angled triangle below.
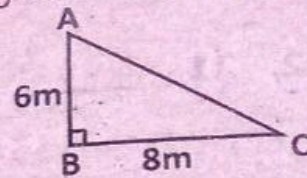
SECTION B(60 marks)

21 In a class of 52 pupils, 30 play football (F), (2p-1) play volley ball only, P pupils play both games while 3 pupils play other games.

a) Use the above information to complete the venn diagram below.

$n(\Sigma)=52$

$n(F)=30$ $n(V)=$___

3
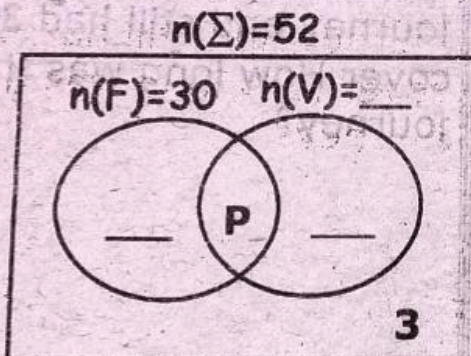
(03 marks)

b) Find the value of **P**.

(02marks)

c) How many pupils play volley ball?

(01 mark)

22 Emmy went to the shop and bought the following items to prepare for her birthday.

2 litres of cooking oit at sh. **8,000** per litre.

250g of salt at sh.**2,000** per kg.

1½ kg of rice at sh. **6,000**

6 tomatoes of sh. **1,200** for every 3 tomatoes
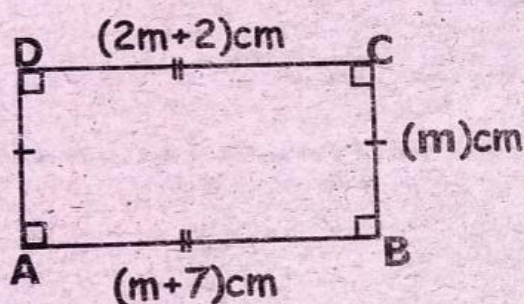
2kg of meat at sh. **28,000**

a) Calculate the total expenditure.

b) If she had 3 notes of sh. 20,000 how much was her change?

(01 mark)

(04 marks)

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23 The figure below is a rectangle ABCD where AB=CD and BC=AD. Use it to answer the questions that follow.

a) Workout the value of **m**.

D $(2m+2)$cm C

(m)cm

A $(m+7)$cm B

(02 marks)

b) Calculate the length of diagonal $\overline{AC}$.

(03 marks)

24
a) Given that $1001_P = 21_{four}$ Find the value of **P**.

(03 marks)

b) What base five numeral can be got when you workout: $34_{five} \times 12_{three}$ and give your answer.

(02marks)

25	**Workout:** $\dfrac{2.4 \times 0.15}{1.2 - 0.8}$.	b)	Express **0.36** as a common fraction in its lowest terms.

(03 marks) *(02 marks)*

26
a) Using a ruler, a pencil and a pair of of compasses only.
Construct a regular hexagon of radius 4cm.
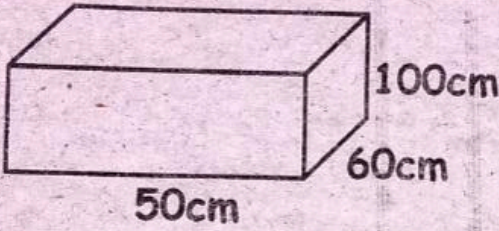
(04 mar

b) Workout its perimeter.

(01 ma

27 Peter, Ivan and Deo shared **240** books in the ratioof **2:3:7** respectively
a) How many books did each get?

c) How many more books did De get than Peter?

28 | Ariyo drove his car from Mbarara to Masaka at a steady speed of 120km/hr for 90minutes.

a) How long was the journey?	b) If he reached Masaka at 9:20am, at what time did he leave Masaka?
(02 marks)	(02 marks)

29 Below is a rectangular tank. Use it to answer the questions that follow.

100cm

60cm

50cm

a) Calculate the base area of the shape.	b) Workout its total surface area.
(02marks)	(03marks)

30 Mwebe is 5 years older than Kayembe. The sum of their ages is 65 years.

a) How old is Mwebe?	b) How old will Kayemba be in 14 years' time?

31 The table below shows the marks that were scored by pupils in a Mathematics test. Use it to answer the questions that follow.

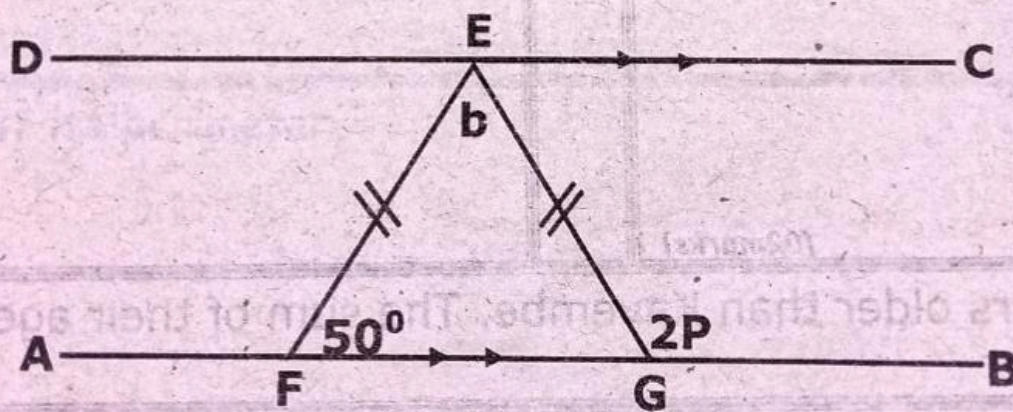| Marks	40	80	70	90
No. of pupils	2	3	4	1

a) Calculate the median score.

b) How many pupils scored above the mean score?

(03marks)

(02ma

32 In the figure below line AB is parallei to line DC and EFG is an isosceles triangle. Use it to answer the questions that follow.

a) Find the value of :
i) b

ii) P