

# THE JEROX PRE-MOCK EXAMINATION 2023

## Primary Seven Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

Index No.	Random No.				Personal No.			

NAME: \_\_\_\_\_

SCHOOL: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DISTRICT: \_\_\_\_\_

**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 can not 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

ORGANISED BY:

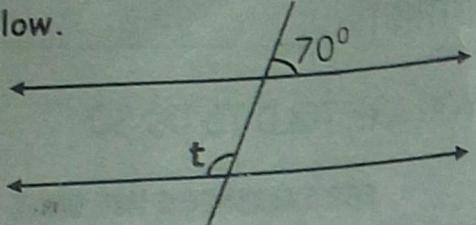


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**SECTION A (40 Marks)**

1	Workout: $16 + 23$	2	Find the next number in the sequence. 2, 3, 5, 7, _____
3	Expand <b>645.7</b> using powers of ten.	4	Write <b>94</b> in Roman numerals.
5	Find the value of $t$ in the figure below. 	6	Joan paid Sh.5000 for 3 mangoes and 4 apples, the cost of each apple is Sh.800. Find the cost of each mango.
7	How many minutes are there in $2\frac{1}{2}$ hrs?	8	Express $\frac{3}{5}$ as a decimal fraction.
9	Given that set $A = \{\text{all letters of vowels}\}$ . Find $n(A)$	10	What number has been prime factorized to give $2^1 \times 3^2 \times 5^1$ ?

28

a)

c)

29

a)

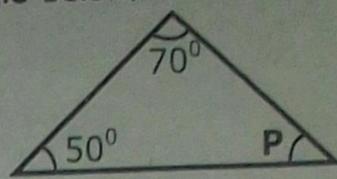
30

a)



11 Work out the median of 13, 7, 9, 15, 11.

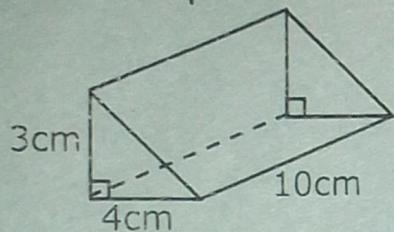
12 Work out the value of P in the triangle below:



13 **Workout:**  $1101_{\text{two}} + 111_{\text{two}}$

14 Express 0.438kg to grammes.

15 Study the prism below and answer the question;



How many edges does it have?

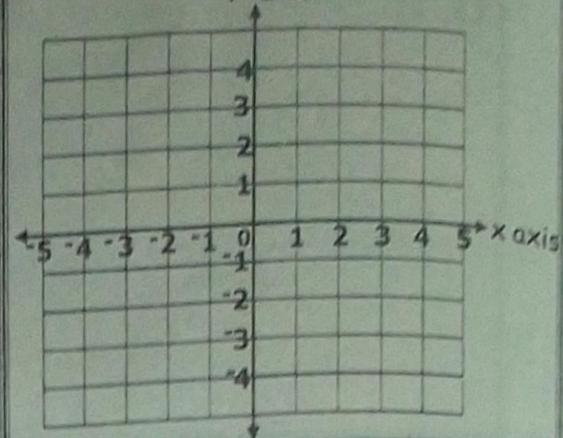
16 The Area of the square piece of land is  $36\text{m}^2$ . Calculate its perimeter.

17 Using a ruler, pencil and a pair of compasses only construct an angle of  $105^\circ$ .

18 John is 12yrs old and Jane is 5yrs older than John. Work out their total age.

19 Write 24.85 in standard form.

20 Plot A(-3, +4) on the grid below



### SECTION B (60 Marks)

21 a) Given that  $x = 5$ ,  $y = 4$ .  
Find the value of  $2x - 2y$ .

b)

Solve:  $5(p + 3) - 5 = 25$

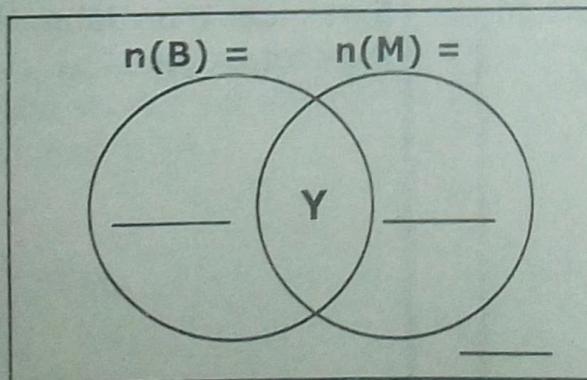
(02marks)

(03marks)

22 In a village of 49 farmers, 20 farmer grow millet (M), 25 farmers grow beans (B) and Y farmers grow both millet and beans while 3y farmers grow neither of the two food crops.

a) Use the above data to complete the Venn diagram.

$$n(\Sigma) = 49$$



(03marks)

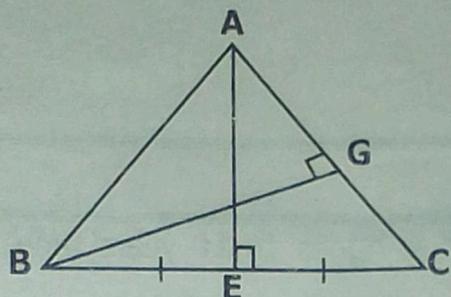
b) Find the value of Y.

c) How many farmers grow only one type of food crop?

(02marks)

(01mark)

- 23 The figure below is a triangle ABC given that  $\overline{BC} = 15\text{cm}$ ,  $\overline{AE} = 8\text{cm}$  and  $\overline{AC} = 12\text{cm}$ .



a) Find length  $\overline{BG}$ .

b) Find perimeter of AEC.

(02marks)

(02marks)

- a) Workout out the L.C.M of 12 and 18.

b) Find the sum of prime numbers between **10** and **20**.

(02marks)

(03marks)

25 Using a ruler, pencil and a pair of compasses only construct a triangle  $PQR$  where  $PQ = 7\text{cm}$ , angle  $QPR = 120^\circ$  and angle  $PQR = 30^\circ$ .

(04marks)

b) Measure length  $\overline{PR}$ .

(01mark)

26 James is 4 times as old as Agnes. In 10 years' time, James will be twice as old as Agnes will be.

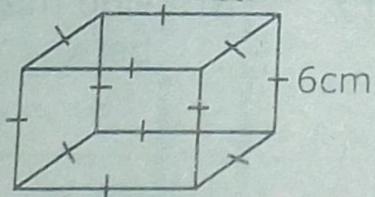
a) How old is James now?

b) How old will Agnes be then?

(03marks)

(02marks)

27 Study the prism and answer questions below.



a) Workout the volume of the prism.

(02marks)

b) Calculate the total surface area (TSA) of the prism.

(02marks)

28 Study the table carefully and answer the questions.

Marks	72	85	90	95	96
Nº of pupils	4	12	1	4	5

- a) Find the range of marks. (01mark)
- b) Work out the modal mark. (01mark)

- c) Calculate the mean mark of the pupils who scored above 85. (03marks)

29 a) Simplify:  $-7 - -4$

- b) If today is Friday, what day of the week will it be 69 day from today? (03marks)

(02marks)

- 30 a) Arrange  $\frac{3}{5}, \frac{2}{3}, \frac{1}{4}$  in descending order  $\frac{5}{3} \frac{3}{4}$

- b) Divide 0.24 by 0.008. (02marks)

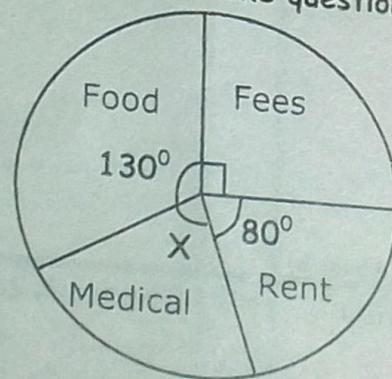
(04marks)

(02marks)

31 A bus travelling at a speed of 80km/h took  $\frac{1}{2}$  hrs, moved from town **A** to town **B**. It then continued to town **C** at a speed of 120km/h for  $1\frac{1}{2}$  hrs.  
Calculate the total distance covered from town **A** to town **C**.

b) Workout the average speed of the bus for the whole journey. (03marks)

32 Study the pie-chart and answer the questions. (02marks)



a) Find the value of  $x$ . (02marks)

b) If Bob spend sh. 50,000 more on food than on rent. How much money does he earn per month. (03marks)

