

THE PROLINE END OF YEAR EXAMINATION 2022

SUBJECT : MATHEMATICS
CLASS : PRIMARY FIVE
DURATION : 2 hours 30 minutes

ABRIDGED CURRICULUM TERM III TOPICS

1. LENGTH, MASS AND CAPACITY
2. ALGEBRA

Name : _____

School : _____

District : _____

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. Attempt all questions in both sections. All answers to both sections **A** and **B** must be written in the spaces provided.
5. All answers must be written in **blue** or **black** ball point pens or **ink**. Only diagrams and graph work must be done in pencil.
6. Unnecessary **alteration** of work will lead to loss of marks.
7. Any **handwriting** that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated.

"FOR EXAMINER'S USE ONLY"

For examiner's use only

PAGES	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Total		

Please Turn over



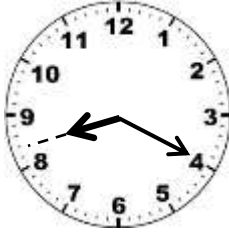
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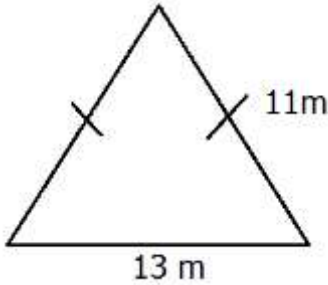
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SECTION A : (40 MARKS)

Attempt **all** questions in this section
Question **1** to **20** carry **two** marks each

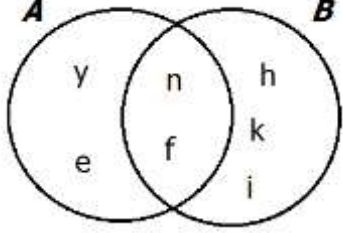
1	Work out: $\begin{array}{r} \text{T} \quad \text{O} \\ 8 \quad 9 \\ - 5 \quad 3 \\ \hline \\ \hline \end{array}$	2	Collect like terms: $3b + 4b$
3	Write the morning time shown on the clock face below. 	4	Set $P = \{ e, g, y, h \}$ find $n(P)$
5	Find the sum of the first three counting numbers.	6	Which number has been expanded? $(3 \times 100) + (9 \times 10) + (7 \times 1)$
7	Express $2\frac{1}{2}$ hours as minutes.	8	The area of a rectangular carpet is 100 square centimetres; its width is 5 cm. Find the size of its length.

9	Work out: $\frac{7}{13} - \frac{3}{13}$	10	Write in 4,895 in words.
11	Simplify: $+5 - -2$	12	In a set, there are 10 black pens and 7 blue pens. A pen was selected at random, what is the probability of selecting a blue pen at random?
13	Add: Years Months 2 6 + 4 9 _____ _____	14	Solve: $6k + 2 = 20$
15	Calculate the total distance around the figure below. 	16	Using a pair of compasses, a ruler and a pencil only, construct an angle of 90° .

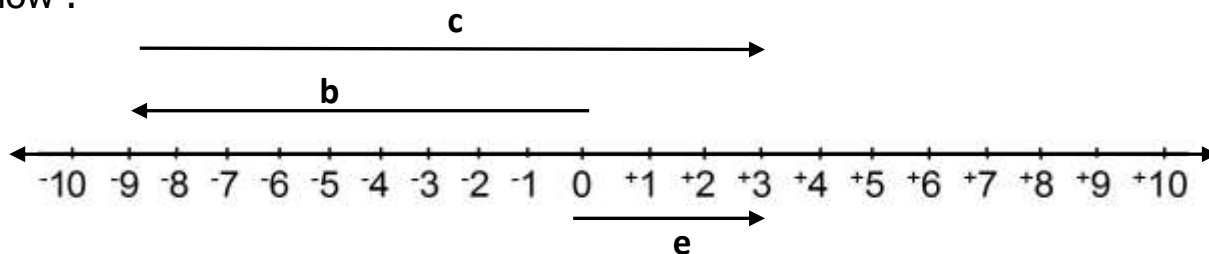
17	A trader bought 5 bags at sh 75,000. How much was the cost of each bag?	18	Round off 28 to the nearest tens.
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19	<p>Given that  stands for 4 flowers, how many flowers were received by Allen on her birthday party if she received:</p> 	20	Using digits 4, 2 and 8, find the sum of the smallest and biggest three-digit numerals formed using the digits listed above.
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<p align="center">SECTION B : (60 MARKS) Attempt <i>all</i> questions in this section Marks for each part of the question are indicated in the brackets</p>			
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21	Use the Venn diagram below to answer the questions that follow.		
		(a) List set A \cap B	(02 marks)
		(b) Find $n(A \cup B)$	(02 marks)
(c)	List all elements of set B only.		(02 marks)

22 Study carefully the number line below and use it to answer the questions that follow .



(a) Write the integers represented by letters.

e = _____ c = _____ b = _____ (01 mark each)

(b) Write the mathematical statement shown on the number line above.

(02 marks)

23 (a) Given that $m = 6$, $n = 8$. Find the value of:

(i) $m + n$

(02 marks)

(ii)

$2m - n$

(02 marks)

(b) Think of a number, add 3 to it, the result is 9. Find the number. (02 marks)

24 (a) Express $4\frac{2}{3}$ as an improper fraction
(02 marks)

(b)

Find the value of 6 in 8.65

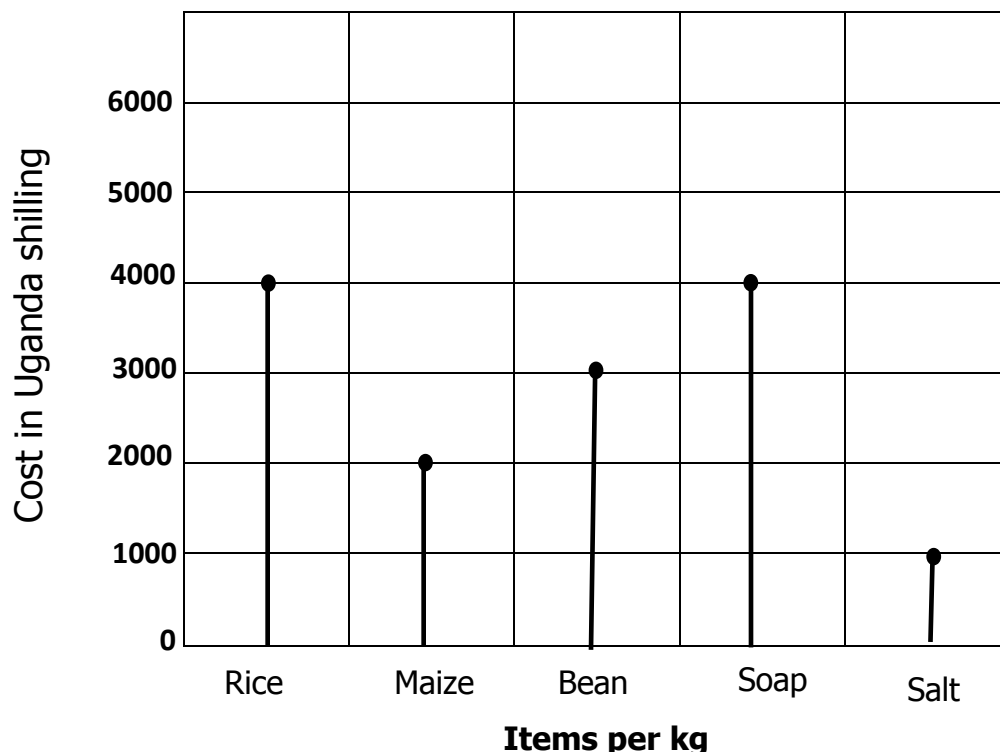
(02 marks)

(c) Express 2.08 as a vulgar fraction in its lowest form

(02 mark s)

25

The graph below shows the cost of items at Proline super market. Use the information on the graph to answer the questions that follow.



- (a) How much is the cheapest item as shown on the graph? (01 mark)
- (b) Calculate how much one has to pay for 3 kg of Rice (02 marks)
- (c) Which two items have the same cost? (01 mark)

26

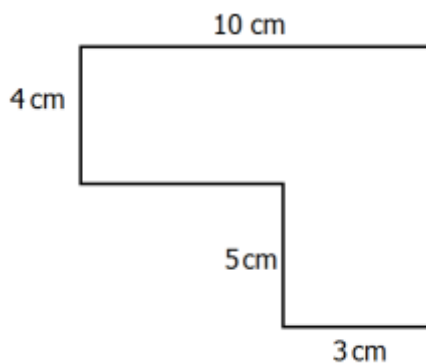
(a) Write the place value of each digit
In the numeral 432_{five} (03 marks)

(b) Change 34_{five} to base ten (02 marks)

27

Calculate the area of the figure below.

(05 marks)



28

Study and complete the table below.

(06 marks)

Item	Quantity	Unit cost	Amount
Sugar	2 kg	Sh.....per kg	Sh.6,000
Ricekg	Sh 4,000 per kg	Sh. 12,000
Milk	4 litres	Sh 2,000 per litre	Sh.....

29

(a) Find the Lowest Common Multiple (L.C.M) of 8 and 10

(02 marks)

(b)

Prime factorise 40 and present your answer in set notation.

(02 marks)

30	(a) A traveller started her journey at 8:00 a.m and she arrived to her destination at 11: 30 a.m For how long was she travelling? (02 marks)
(b)	A cyclist covered a distance of 60km in 2 hours. At what speed was he riding at? (02 marks)
31	Using a pair of compasses, a ruler an a pencil only, construct a square <i>RSTU</i> , <i>RS</i> = 6 cm (05 marks)
32	(a) Find the volume of a cuboid whose length is 12 cm, width 3 cm and height 5 cm. (02 marks)
(b)	Work out: Litres Millilitres 3 250 X 2 _____ _____ <div>END</div>

END