

THE PROLINE END OF TERM I EXAMINATION 2023

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

Name : _____

School : _____

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
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Page 6		
Page 7		
Total		

Please Turn over




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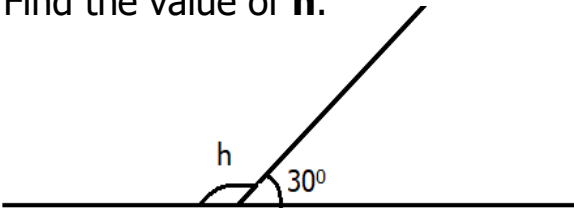
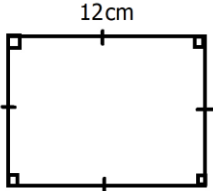
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SECTION A : (40 MARKS)

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

1	Work out:	<div> <div>H</div> <div>T</div> <div>O</div> <div>1</div> <div>6</div> <div>2</div> <div>+</div> <div>1</div> <div>2</div> <div>3</div> <div>_____</div> <div>_____</div> </div>	2	Given that set W = { 5, 6, 7, 8 } and set Y = { 9, 8, 2, 0 }. List elements of set W ∩ Y
3	Write in figures: forty-two thousand, five hundred seventy-eight		4	In the space below, draw a trapezium.
5	Work out:	<div> <div>Weeks</div> <div>Days</div> <div>3</div> <div>2</div> <div>-</div> <div>1</div> <div>4</div> <div>_____</div> <div>_____</div> </div>	6	Prime factorise 12 and present your answer in set notation
7	Given that  stands for 4 apples. Draw pictures to stand for 20 apples		8	Write the place value of underlined digit in 48 <u>9</u> 76
9	Express $2\frac{3}{4}$ as an improper fraction.		10	Work out:
				<div> <div>3</div> <div>3_{five}</div> <div>+</div> <div>4_{five}</div> <div>_____</div> <div>_____</div> </div>

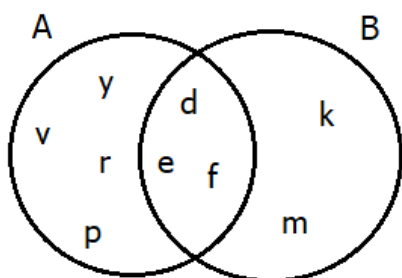
11	In the space below, draw the set symbol for union set	12	Find the value of h . 
13	Find the sum of the first odd counting numbers	14	Write as a single number. $(4 \times 100) + (2 \times 10) + (9 \times 1)$
15	One taxi carries 14 passengers. Find the number of taxis required to carry 84 passengers.	16	List all the factors of 10
17	Solve: $m + 5 = 8$	18	A circle has a diameter of 8 cm. What is the size of its radius?
19	Find the total distance around the square below in centimetres. 	20	A trader bought a shirt at sh 34,000 and he sold it at sh 56,000 How much profit did he make?

SECTION B : (60 MARKS)

Attempt **all** questions in this section

Marks for **each part** of the question are indicated in the brackets

21 Use the Venn diagram below to answer the questions that follow.



(a) List elements of:

(i) **$A \cup B$** (02 marks)

(ii) **$B - A$** (02 marks)

(b) Find $n(A \cap B)$ (02 marks)

22 (a) Write **27,859** in words.

(c) Expand **6978** using powers of **10**

(b) Round off **406** to the nearest tens. (02 marks)

(02 marks)

(02 marks)

23 (a) Change **42_{five}** to base ten.

(b) Simplify: $24 \div 2 \times 3$ (02 marks)

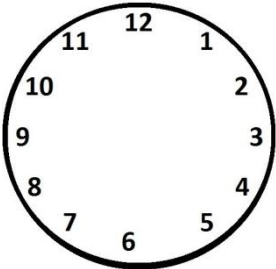
(c) Write the place value of **3** in **324_{five}**

(02 marks)

(01 mark)

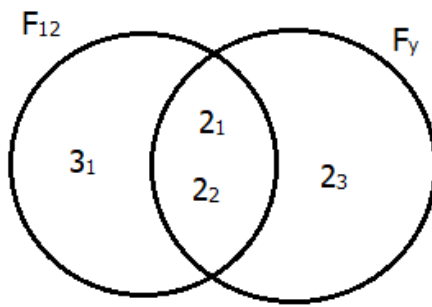
24	<p>(a) Compare using $<$, $>$ or $=$</p> <div><div>$\frac{1}{2}$</div><div></div><div>$\frac{1}{4}$</div></div> <p>(02 marks)</p>	(b)	<p>Arrange $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{8}$, $\frac{5}{8}$ starting from the biggest to the smallest.</p> <p>(02 marks)</p>												
25	<p>Using a protractor, a pencil and a ruler, draw a square KLMN, KL = 4 cm</p> <p>(05 marks)</p>														
26	<p>The table below shows marks scored by Karen in the Midterm examinations, use it to answer the questions that follow.</p> <table><tr><td>SUBJECT</td><td>ENG</td><td>SCI</td><td>SST</td><td>MTC</td><td>RE</td></tr><tr><td>MARK</td><td>87</td><td>98</td><td>82</td><td>94</td><td>87</td></tr></table> <p>(a) In which subject did she score the highest mark? (01 mark)</p> <p>(b) How many more marks did she score in science than in Mathematics? (02 marks)</p> <p>(c) In which subjects did she score the same marks? (01 marks)</p> <p>(d) Calculate her total score. (02 marks)</p>			SUBJECT	ENG	SCI	SST	MTC	RE	MARK	87	98	82	94	87
SUBJECT	ENG	SCI	SST	MTC	RE										
MARK	87	98	82	94	87										

4

27	<p>(a) Work out: Hours Minutes</p> $\begin{array}{r} 2 \quad 40 \\ + 3 \quad 50 \\ \hline \\ \hline \end{array}$ <p style="text-align: right;">(02 marks)</p>	<p>(b) Show 4:50 on the clock face below.</p>  <p style="text-align: right;">(02 marks)</p>			
28	<p>(a) Ben has sh 3000. If he has five hundred shilling coins, How many coins does he have?</p> <p style="text-align: right;">(02 marks)</p> <p>(b) Amina had sh 10,000 and she bought 2 kg of sugar each at sh 4000. Find how much was her change?</p> <p style="text-align: right;">(02 marks)</p>				
29	<p>(a) Collect like terms: $3b + 5b + 2b$ (01 mark)</p> <p>(b) Given that $e = 6$, $f = 4$, find the value of:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; padding: 10px;"> <p>(i) $e + f$</p> </td> <td style="width: 10%; border-left: 1px solid black; border-right: 1px solid black; text-align: center; vertical-align: middle;"> <p>(ii)</p> </td> <td style="width: 40%; vertical-align: top; padding: 10px;"> <p>$\frac{2e}{f}$</p> </td> </tr> </table> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> (01 mark) (02 marks) </div>		<p>(i) $e + f$</p>	<p>(ii)</p>	<p>$\frac{2e}{f}$</p>
<p>(i) $e + f$</p>	<p>(ii)</p>	<p>$\frac{2e}{f}$</p>			

30

(a) Use the prime factors on the Venn diagram to answer the questions that follow.



(i) Find the value of **y** (02 marks)

(ii) Work out the **G.C.F** of **12** and **y**

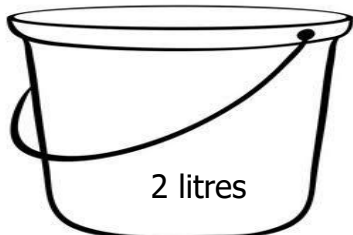
(iii) Find the **L.C.M** of **12** and **y** (02 marks)

(02 marks)

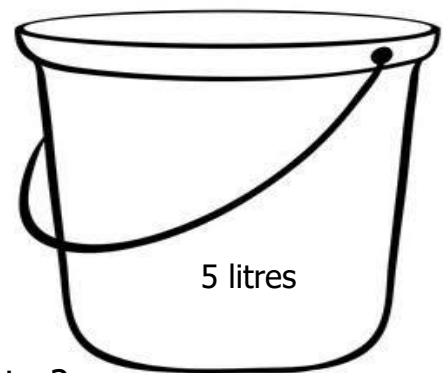
31

The figures below show two buckets that have different capacity, use them to answer the questions that follow.

Bucket A



Bucket B



(a) Which bucket holds the lesser amount of water?

(01 mark)

(b) How many milliliters of water can Bucket B hold?

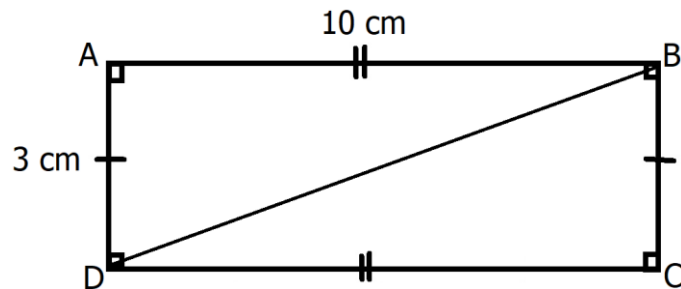
(02 marks)

(c) How many more litres of water does bucket B hold than bucket B?

(02 marks)

32

Use the figure below to answer the questions that follow.



(a) Name distance: DC = _____ (01 mark)

BC = _____ (01 mark)

DB = _____ (01 mark)

(b) Calculate the area of the figure above.

(02 marks)

END