

THE PROLINE END OF YEAR EXAMINATION 2023

SUBJECT : MATHEMATICS

CLASS : PRIMARY FIVE

DURATION : 2 hours 30 minutes

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
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Page 5		
Page 6		
Page 7		
Total		

Please Turn over



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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:

$$\begin{array}{r} \text{T} \quad \text{O} \\ 5 \quad 7 \\ + 1 \quad 2 \\ \hline \\ \hline \end{array}$$

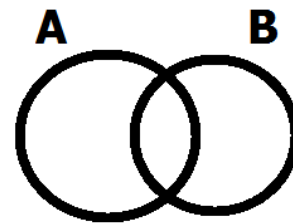
2

Write in short:

$$7\text{boys} + 3\text{boys} - 5\text{boys}$$

3

Which number has been expanded?
 $(7 \times 100) + (2 \times 10) + (5 \times 1)$

4Shade set **A - B****5**

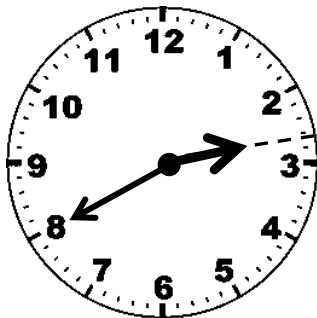
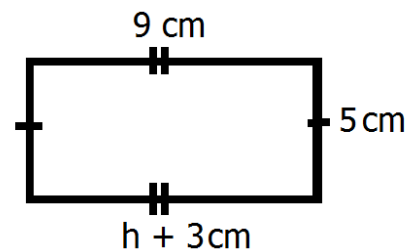
Find the difference between the **fourth** and the **second** odd numbers.

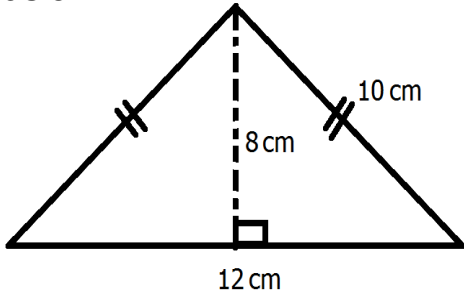
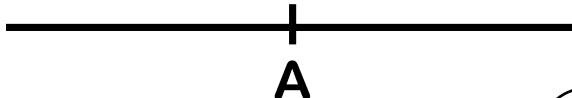
6

Express 2 hours as minutes.


7

Write the evening time shown on the clock face below.

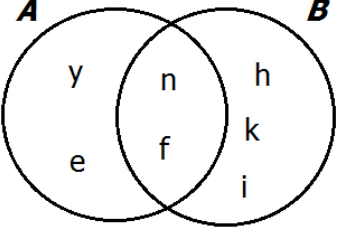
**8**Find the value of **h**.

9	In a class $\frac{3}{5}$ of the pupils are boys. What is the fraction of the girls?	10	Write in sixty-two thousand, four hundred seventy-eight in figures.
11	In a bag, there are 3 red pens, 6 blue pens and 2 black pens. If a pen is selected at random, what is the probability the pen selected is a blue pen?	12	Add: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Weeks 2 + 1 <hr/> </div> <div style="text-align: center;"> Days 5 6 <hr/> </div> </div>
13	Solve: $3h - 5 = 1$	14	Workout : $+7 - +5$
15	Calculate the area of the figure below. 	16	Using a pair of compasses, a ruler and a pencil only, construct an angle of 60° at point A . 

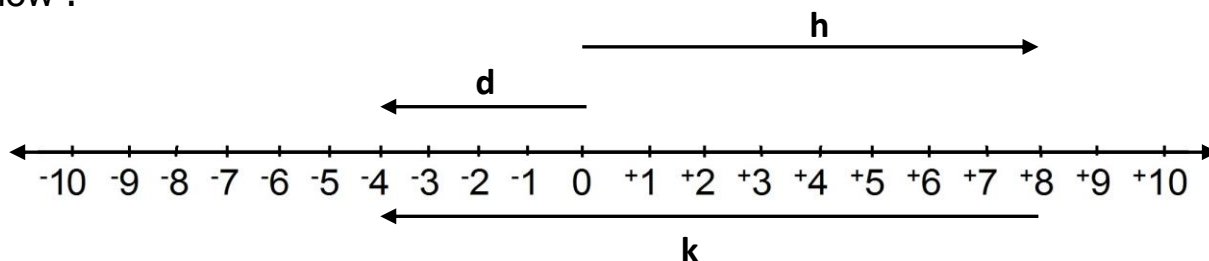
17	A trader bought a bag at sh 45,000 and sold it at sh 57,000. Find how much profit he made?	18	Using digits 5, 7 and 9, find the sum of the smallest and biggest three-digit numerals formed using the digits listed above.
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19	<p>Given that  stands for 3 balls.</p> <p>Draw pictures below that stand for 24 balls</p>	20	Round off 856 to the nearest hundreds.
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	<p align="center">SECTION B : (60 MARKS)</p> <p align="center">Attempt <i>all</i> questions in this section</p> <p align="center">Marks for each part of the question are indicated in the brackets</p>		
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21	<p>Use the Venn diagram below to answer the questions that follow.</p> <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">  </div> <div style="flex: 2;"> <p>(a) List set $A \cap B$ (02 marks)</p> <p>(b) How many elements are in set $B \cup A$ (02 marks)</p> </div> </div>		
(c)	<p>List all elements of set A. (02 marks)</p>		

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



(a) Write the integers represented by letters.

h = _____ **d** = _____ **k** = _____ (01 mark each)

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

(02 marks)

23 (a) Given that **p** = 12, **m** = 5. Find the value of:

(i) **p + m** (02 marks)

(ii) **p - 2m** (02 marks)

(b) Think of a number, add 23 to it, the result is 50. Find the number. (02 marks)

24 (a) Express $\frac{25}{3}$ as a mixed number (02 marks)

(b) Find the value of **5** in 3.57 (02 marks)

(c) Workout: $5.25 + 12.53$

(02 mark s)

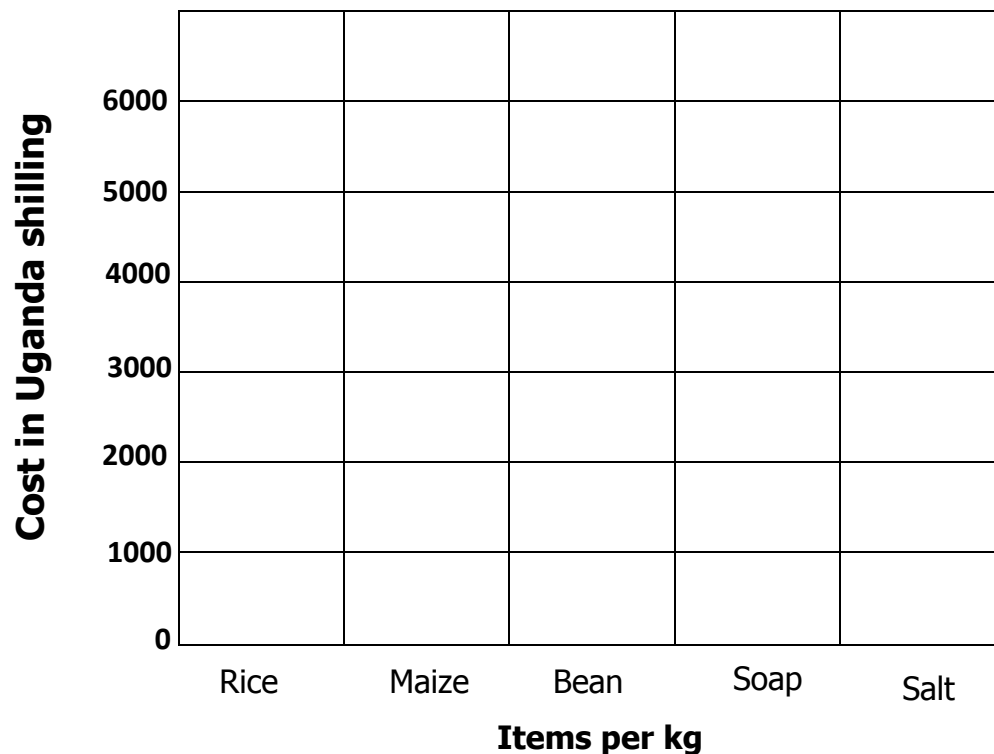
25

The table below shows the cost of items at Proline super market.

ITEM	Rice	Maize	Bean	Soap
COST	Sh 4,000	Sh 1,500	Sh 3,000	Sh 6,000

Represent the above information on the graph below.

(05 marks)

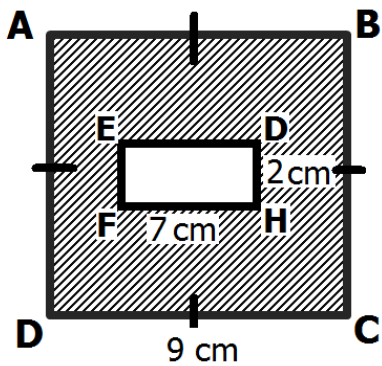


26

(a) Write the place value of each digit
In the numeral 322_{five} (02 marks)

(b) Change 33_{five} to base ten
(02 marks)

- 27 In the figure below, **ABCD** is a square, **FHDE** is a rectangle. Use it to answer the questions that follow.



- (a) Calculate the area of **ABCD**
(02 marks)

- (b) Find the area of **FHDE** (02 marks)

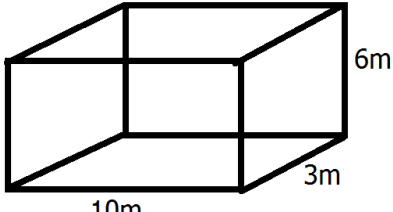
- (c) Calculate the area of the shaded region.
(01 mark)

- 28 Study and complete the table below. (06 marks)

Item	Quantity	Unit cost	Amount
Sugar	2 kg	Sh.....per kg	Sh.12,000
Ricekg	Sh 5,000 per kg	Sh. 20,000
Milk	3 litres	Sh 2,000 per litre	Sh.....

- 29 (a) Find the Lowest Common Multiple (L.C.M) of 6 and 4 (02 marks)

- (b) List all factors of 12 (02 marks)

30	(a) A match started at 7:25 p.m and it ended at 9:55 p.m. For how long did the match last? <div>(02 marks)</div>															
(b)	At what speed should a driver to drive to cover a distance of 144km in 3 hours? <div>(02 marks)</div>															
31	Using a pair of compasses, a ruler an a pencil only, construct a an equilateral triangle ERT , ER = 4 cm <div>(05 marks)</div>															
32	(a) Calculate the volume of the figure below. <div>(02 marks)</div> <div></div>															
(b)	Work out: <div><table><tr><td></td><td>Litres</td><td>Millilitres</td></tr><tr><td></td><td>3</td><td>270</td></tr><tr><td>+</td><td>1</td><td>350</td></tr><tr><td></td><td>_____</td><td></td></tr><tr><td></td><td>_____</td><td></td></tr></table></div> <div>END</div> <div>7</div>		Litres	Millilitres		3	270	+	1	350		_____			_____	
	Litres	Millilitres														
	3	270														
+	1	350														

