

DIVINE EDUCATION CENTRE

PRIMARY LEAVING EXAMINATION-2023

MATHEMATICS (ITEM 2 of 4)

Time allowed: 2hours 30 minutes

]	Random No.				Pers	sonal	No.

Candidate's Name:	•••••	•••••	• • • • • • • •	•••••	•••••	•••••
Candidate's Signati	ıre:	• • • • • • • • •	• • • • • • • •	• • • • • • • • •	•••••	•••••
District ID No.						

Read the following instructions carefully:

- 1. Do not write your **school** or **district name** anywhere on this paper.
- 2. This paper has two sections **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. This paper has **12** pages printed altogether.
- 3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
- 4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
- 5. **No calculators** are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to loss of marks.
- 7. Do not fill anything in the table indicated **"For examiners' use only"** and the boxes inside the question paper.

FOR EX	AMINERS	8'
US	E ONLY	
Qn. No.	MARKS	EXR'S No.
1- 5		
6 -10		
11- 15		
16 – 20		
21 - 22		
23 - 24		
25 – 26		
27 - 28		
29 – 30		
31 - 32		
TOTAL		

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Turn Over

SECTION A: (40 MARKS)

Answer all questions in this section

Questions 1 to 20 carry two marks each

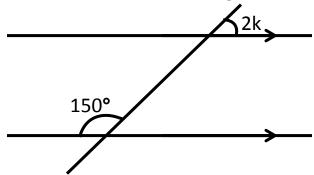
2- Write " Eighty thousand , eighty eight" in figures

3- Simplify: 5y - 2(y - 1)

4- Given that $H = \{ m, d, n, w \}$, find the number of proper subsets in set H.

5- Work out:
$$\frac{8}{9} \div \frac{2}{3}$$

6- Find the value of k in the figure below.



7- Express 0.25 kg as grammes.

8- Use distributive property to work out : $(21 \div 9) + (15 \div 9)$

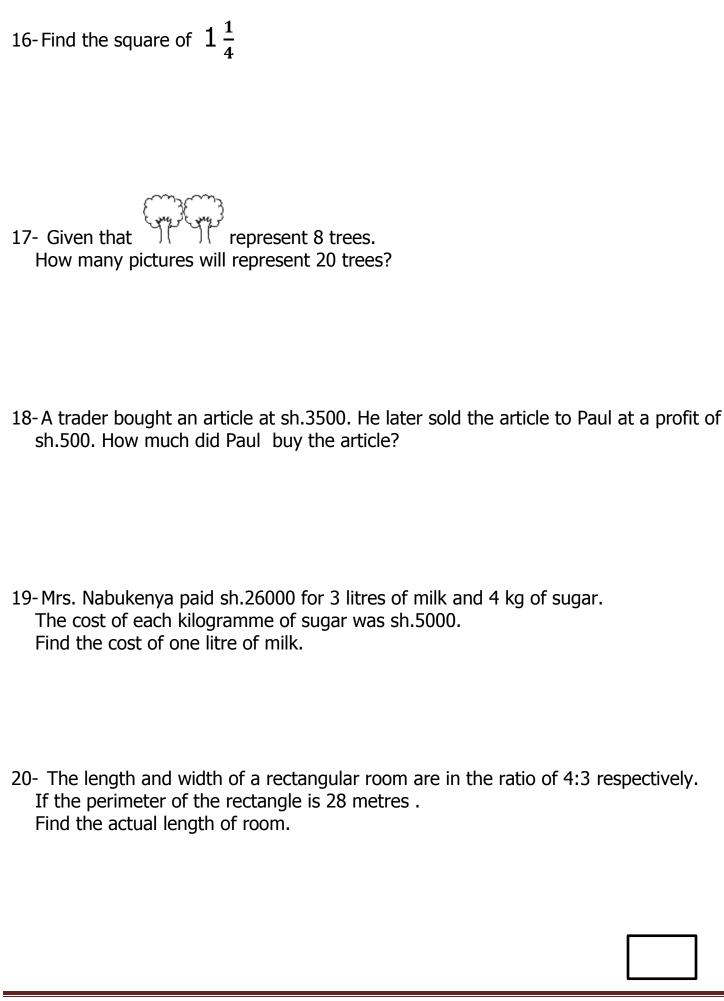
9- Simplify: 4 - 6 = (finite 7)

10-Arianna sold the cups during the week as shown below.

Mon	Tues	Wed	Thurs	Fri	Sat
2	3	5	7		

If the cups sold on Friday and Saturday were following the same sequence, find the total number of cups which were sold altogether.

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15-Dennis went to sleep at twenty minutes to midnight. Write this time in 24 hour clock system.	
14-Solve the inequality : $3 \ge 9 - 2m$	
weight became 40 kg. Find the weight of the teacher.	
13-The average weight of 4 children is 34 kg. When their joined them, their average	
box is $\frac{4}{7}$. The bag contains 18 red pens. Find the total number of pens in the box	, . •
12-In a box, there a red and blue pens. The probability of picking a blue pen from the	e
11-Martha was facing in the western direction and turned clockwise to face northeast Through what angle did she turn?	

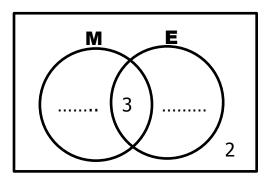


SECTION B:60 MARKS

Answer **all** questions in this section Marks for each question are indicated in the brackets.

- 21- In a class, 12 pupils like English(E), 3 pupils like both English and Mathematics(M), k like only one subject while 2 pupils like neither of the two subjects.
 - (a) Use the information above to complete the venn diagram below.

(02marks)



(b) Given that 10 pupils do not like English, find the number of pupils in the class. *(03marks)*

22-Express the number that has been expanded to give: $(1 \times 2^3) + (1 \times 2^1) + (1 \times 2^0)$ as a quinary base.

(04 marks)

23-A bus carries 216 passengers in 3 trips. The went for 12 tripat the same capacity. Each passenger paid sh.3000 for ever	y trip.
How much was collected from all the 12 trips?	(04marks)
24- The exterior angle of a regular polygon is a fifth of its inter	_
Calculate the interior angle sum.	(06marks)

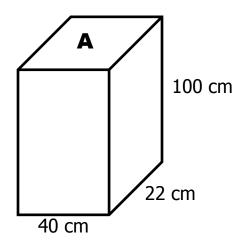
25-Akello went to the supermarket with sh.30,000 and bought the following items: > 500 ml of milk at sh.3000 per litre > 3 kg of rice at sh.3500 each kg > 7 mangoes at sh.3000 for every 2 mangoes a) Calculate Akello's total expenditure. (05marks) b) Find her balance. (01mark) $\frac{4-m}{3}=1$ 26-a) Solve for m: (02marks) b) Tom is 12 years old . Daniel is 18 old. Some years ago, Daniel was twice as old as Tom. How old was Daniel by then? (03marks)

27-Using a pair of compasses, ruler and a sharp pencil only, a) construct a triangle PQR such that line PR =6cm , angle QI PRQ=75°.	PR= 45° and angle (04marks)
(b) Drop a perpendicular line from point Q to meet PR at K ar triangle PQR.	nd find the area of the (02marks)
28-A wire which made a rectangle of 24cm by 20cm was later of a cirle. Calculate the radius of the circle formed.	urved carefully to form (04marks)

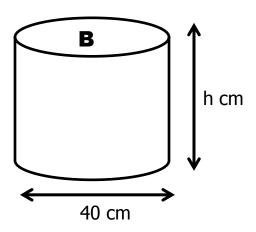
- 29-Masiko borrowed a certain amount of money from the bank which gave him a simple interest rate of $7\frac{1}{2}\%$ per month for 4 months.
 - At the end of the 4 months, he paid back an amount of sh.520,000.
 - a) How much money did Masiko borrow from the bank? (03marks)

- b) Find the simple interest he paid at the end of 4 months. (02marks)
- 30-The figures **A** and **B** below have the same capacity.

 Study them carefully and use them to answer the questions that follow.







(02 marks)

	(b) Find the height of figure B in centimetres.	(03 marks)
3	31- A man spent $\frac{1}{4}$ of his monthly salary on food, 40% of the respect to a second the rest of his part of the rest of t	
	saved the rest. If he saved sh.270,000, calculate the man's m	onthly salary.
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32- Mr. Sseguya started his journey of 180 km from home at 7:30a.m.

He drove at a speed of 40 km/h for 2 hours. He rested at the petrol

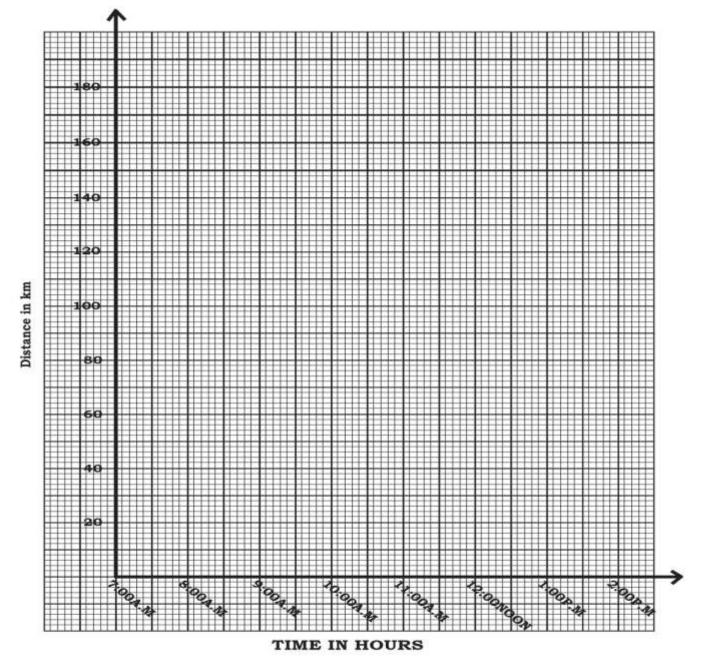
station for 30 minutes. He then continued to his farm using the same

a)Use the given information to show Mr. Sseguya's journey on the graph

speed to cover the remaining journey.

below.

(3marks)



b) Calculate Mr.Sseguya's average speed for the whole journey. (02 marks)

END