

THE DESTINY ACADEMIC RESEARCHERS CONSULTANCY - KAMPALA

PRIMARY LEAVING SPECIAL MOCK EXAMINATION 2024 MATHEMATICS

Time allowed: 2 hours 30 minutes

Time anowed: 2 nours 50 minutes										
Index No.	Random No.				Personal No.					
Candidate's name:										
Candidate's signature:										
School Random number:										
District No	. [
Read the following instructions carefully:										

- 1. Do not write your **school** or **district name** anywhere on this paper.
- This paper has two sections: A and B.
 Section A has 20 questions and section B has 12 questions. The paper has 12 printed papers 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 easily be 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.

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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		

SECTION A Questions 1-20 carry 2 marks each

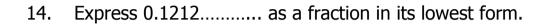
2. Solve
$$3y + 2 = 23$$

4. Simplify;
$$2y + 4x - 2x + y$$

5. A pot contains 9½ litres of water. How many half litre bottles will the water fill?
6. Find the complement of (n+30)°.
7. What is the next number in the sequence: 29, 21, 14, 8, 3,
8. Jamada has a bundle of five-thousand-shilling notes numbered in order from AH565705 to AH565805. How much money does he have altogether?

9. In a class there are 14 boys and 12 girls. If a pupil is picked at random to sweep the classroom, what is the probability that the pupil picked is a girl?	
10. Three pencils cost shs 1200. Find the cost of 9 pencils.	
11. A rectangle is 8m by 6m. Find the length of the diagonal.	
12. Asiimwe deposited shs 500,000 in Stanbic bank which offers an interest 30% per year. How much will Asiimwe have in the bank after six months?	of

12	Kintu's speed	ic ankm n	or hour	Fynrace thic	in matrac	ner second
IJ.	Militu 3 Speccu	is Jukili p	ci iloui.	LAPICOS UIIO	III IIICU CS	per second.



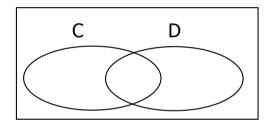
16. Find the value of p:
$$-2p + 4 > 6$$

17. Write XCIV in Hindu Arabic numerals.

18. The exterior angle of a regular polygon is 45°. Name the polygon.

19. Find the square root of $5^4/9$.

20. In the diagram below, shade $(C \cup D)^I$



SECTION B

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

21. The table below shows marks scored by pupils in a mathematics test. Use it to answer the questions that follow

Marks scored	70	40	30	50
Number of	1	2	4	3
pupils				

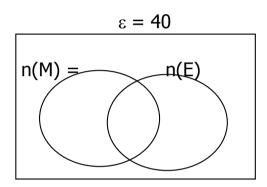


(c) Calculate the mean mark. (2mks)

22. Okwi divided his money among his daughters; Alice, Akello, Angella in ratio 5:3:7 respectively. If Akello got shs 300,000 how much did the others each get?(4mks)

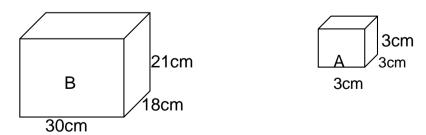
23. Okello rolls a wheel of a diameter 70cm through a distance of 300 metres. How many complete revolutions does the wheel make?(5mks)

- 24. In a class of 40 pupils, 25 like Mathematics (M), 19 like English (E), w pupils like both and 3 don't like any of the subjects.
- (a) Represent the information on a venn diagram. (3mks)



(b) How many pupils like both subjects? (2mks)

25. Below is a cube A and box B. Isabirye packs Tayari curry power in cubes and packs them in a box for export to Nairobi.



(a) Find the number of cubes that can fit into box B. (2mks)

Calculate the space left empty after filling the box with cubes of curry (b) power. (3mks)

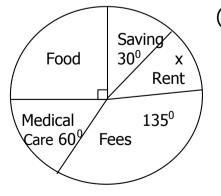
26. Solve:
(a)
$$\frac{1}{2}$$
r + 7 = 2r – 2

(2mks)

(b)
$$\frac{10}{2}$$
+ 2 = 22

(2mks)

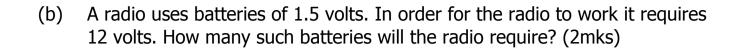
27. The pie chart below shows how James spends his monthly salary.



(a) If he spends shs 150,000 on rent, find his salary.

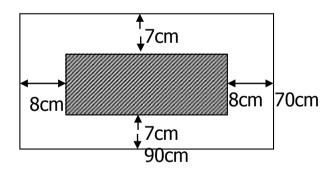
(b) Work out the money he spends on food.

(c)	How	much more money does he spend on fees than on medical care	e?
28.	and s 50kg 20 lit	went to buy the following items from a wholesale shop so as to sell them in his retail shop. of sugar at shs 250,000 cres of cooking oil at shs 100,000 ars of soap at shs 50,000	bring
	(a)	If he wants to get a profit of 20% from sugar, at what retail phe sell a kg of sugar? (2mks)	orice will
	(b)	If he sells the cooking oil at shs 6,000 per litre, what would be profit? (2	e his ?mks)
	(c)	Jomi sold the soap and made a loss of 10%. What was his sel price for a bar of soap?	ling (2mks)
29a)	Simpli	ify: <u>0.27 x 0.006</u> 0.9 x 0.3	(3mks)



30. Out of 5,200,000 candidates who sat for P.L.E in a 2023, 30% were girls and the rest were boys, 80% of the girls passed the exam and 10% of the boys failed the exam. How many candidates passed the exam? (6mks)

31. A piece of cloth is laid on a table 90cm long and 70cm wide as shown in the figure below. The area covered by the piece of cloth is shaded.



(a) Find the length and width of the piece of cloth.(2mks)

(b)	Calculate the area of the table which is not covered by the piece of cloth. (3mks)
32. (a)	A ship left Port A for port B on a bearing of 090°. It sailed for 100km then changed its course and sailed on a bearing of 140° for 80km before reaching Port B. Draw a sketch diagram for the journey. (1mk)
(b)	Using a scale of 1cm to represent 10km, draw an accurate diagram of the whole journey. (4mks)