BROAD EXAMINATIONS© PRIMARY LEAVING SPECIAL EXAM

2023 MATHEMATICS

Time allowed: 2 hours 30 minutes.

Random No.					nal No.

Candidate's Name: Candidate's Signature									
Candidate's Signature	•••••								
School Name:									

Read the following instructions carefully:

- 1. This paper is made up of two sections: A and B.
- 2. Section A has 20 questions (40 Marks).
- · 3. Section B has 12 questions (60 Marks).
 - 4. Answer ALL questions in both sections A and B.
 - All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams should be done in pencil.
 - 6. Unnecessary crossing of answers will lead to loss of marks.
 - 7. Any handwriting, which cannot be easily read, may lead to loss of marks.
 - 8. Do **not** fill anything in the boxes indicated for Examiners' use only.

· FO	R EXAMINER'S USE ONLY
QN. 1-5 6-10 11-15 16-20 21-22 23-24 25-26	MARKS SIGN
1-5	
6-10	
11-15	
16-20	
21-22	
23-24	
25-26	
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29-30	
27-28 29-30 31-32	
TOTAL	

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SECTION .A. (40 Marks)

1. Multiply; 2 0 ___x__5

2. Express XXVIII in Hindu-Arabic numerals.

3. Simplify 7 - 4

4. Express the unshaded fraction as a percentage.

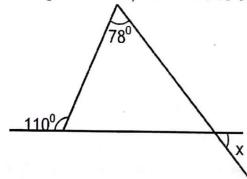


5. Given that p = (multiples of 7 less than 40), write down all elements in set P.

6. Solve; $y + 3 = ^{-}2y$

7. Work out; 1101_{two} - 110_{two}

8. In the diagram below, find the size of angle \boldsymbol{x} in degrees.

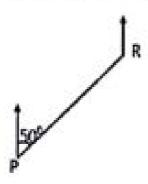


9. John walked for 1½hrs at an average speed of 40kilometres per hour. What distance did he cover?

10. What number when decreased by 25% becomes 450?

11. Julius has, in his pocket, a bundle of	Ten thousand shilling notes numbered in order
from AH565705 to AH565805. How ma	iny notes does he have in his pocket?

12. In the diagram below, find the bearing of town P from town R.



13. Peace is standing in a line so that her position keeps the same from either side of the line. If there are 37 girls in the line, find her position.

14. Seventy mangoes were put in boxes where some boxes had 11 mangoes in them and some had 12 mangoes in them. How many boxes had 12 mangoes in them?

15. Factorise completely 36a²b -	9ab ² .			r
16. Baby Alvin went to sleep at 2 long did Baby Alvin sleep?	.145hrs and wok	e up the next (day at 0615hr	s. For how
		1210		
17. Using a ruler, a pencil and a p	oair of compasse	es only, constru	uct an angle (of 120°.
		**		
18. The Lowest Common Multiple				Common
Factor is 4. If one of the numb	ers is 30, find t	ne other numb	oer.	
r salatin		. = 4		
19.A trader put sh. 500,000/= in t month. How much money did h				as 3% per

20. Given that 🕡 🕡 🕡 represents 12 balls. Draw symbols to represent 28 balls.

SECTION .B. (60 Marks)

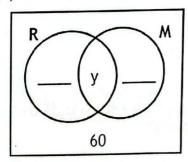
- 21. Out of 1200 pupils at Uganda Martyrs P/S who sat for a test, 1 are girls.
 - (a) How many girls are in the school?

(02 Marks)

(b) If 40% of boys failed the test and 55% of girls passed the test, how many pupils altogether passed the test?

(04 Marks)

- 22. In a village party attended by 510 guests, 280 ate Rice (R), 290 ate matoke (M), y ate both Rice and Matoke while 60 guests ate none of the above foods.
 - (a) Use the information above to complete the venn diagram.



$$\Sigma = 510$$

(02 Marks)

(b) Find the value of y.

(02 Marks)

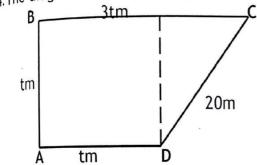
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(c) Find the number of guests who ate only one type of food.

 $_{23,\,\text{Kato}}$ is 38 years old now and his daughter is 12 years. After what time will Kato be twice as old as his daughter?

24. The diagram below has length BC = 3t, AD = AB = t and DC = 20m. If its area = 72m^2 ,



(a) Find the value of t?

(03 Marks)

(b) Work out its perimeter.

(02 Marks)

^{25. In a class}, the teacher had fruits. If these fruits are divided by 4 pupils, 2 remain, and when divided by 7, 3 remain, how many fruits had the teacher in class?

(04 Marks)

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P.7 MATHS SPECIAL EXAM 2023

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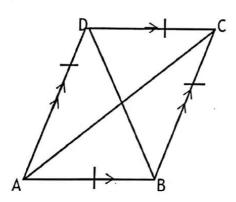


26. Complete the magic square below by filling in the missing values.

		28	17
25	20	19	
100	24	23	18
26	15		29

(05 Marks)

27. The diagonals of a rhombus below are in the ratio of 3:4. The area of a rhombus is 96cm².



(a) Find the length of diagonal AC and BD.

(b) Work out the perimeter of the rhombus.

(03 Marks)

(02 Marks)

28. (a) Using a ruler, a pencil and a pair of compasses only, construct where line PO = 6.8cm angle POT = 45° and angle PTO = 75°.	t a triangle POT
	(04 Marks)
(c) Drop a perpendicular line from point T to meet line PO at poi	
area of the triangle POT.	
	(02 Marks)
29. Peter wrote 4 consecutive even numbers on the chalkboard. The	
and the fourth numbers is 16.	
(a) List the numbers.	
(a) List the manuscript	
	(00.11.1.)
	(03 Marks)
aport entra lively. An element on the first title or female, and the	and the state of
dia - Lard aumbers in standard form	
(b) Express the product of 1 st and 3 rd numbers in standard form.	
	(02 Marks)
25 (At 16)	
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ACADEMIC EXCELLENCE, AVOID MISSING BROAD HOLDS	

30. A trader bought 20 pineapples	at sh 1000	each. So	ome pineapple	s got spo	oilt and he
then sold the remaining at sh.	1500 each.	If he re	alized a profit	of 20%,	how many
pineapples got spoilt?			,		

(04 Marks)

31. Mr. Kashaija has the following money in different currencies.

200 US dollars (US\$)

1000 Kenya shillings (KShs)

5,000,000 Uganda shillings (UGX)

If the exchange rates today are as follows;

1 US\$ = Ugsh. 3620

1 Kshs = Ugsh. 25

(a) How much in Uganda shillings does he have now?

(03 Marks)

(b) If a good watch in Kenya costs 463,360 Kenya shillings, how many dollars does he need to buy it?

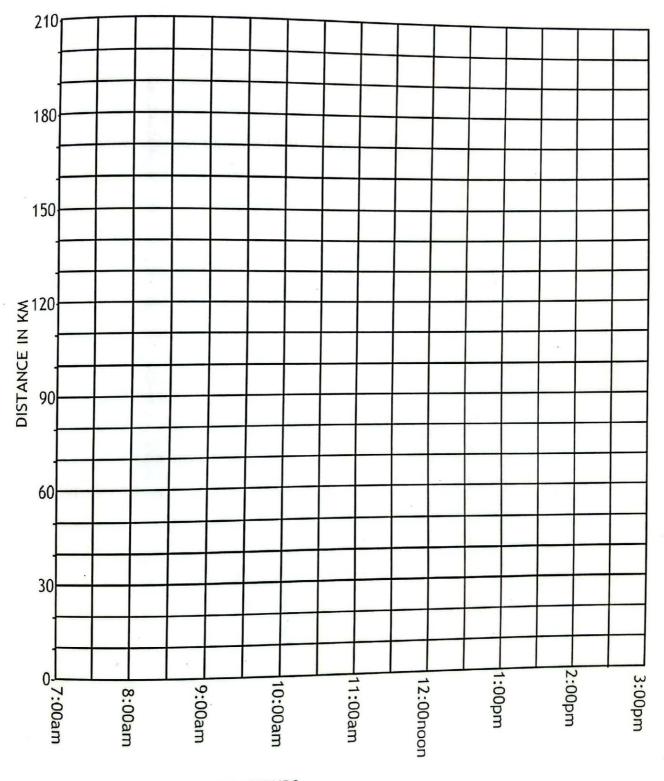
(03 Marks)



32. A motorist left town X at 7:30am for town Y at a speed of 60km/hr in 1 hour and 30 minutes. He rested at town Y for 30 minutes and continued to town Z which is 120km from Y in 1 hour. He rested for 30 minutes at town Z and drove back to town X at a speed of 60km/hr.

(a) Represent the above information on the grid below.

(03 Marks)



TIME IN HOURS

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P.7 MATHS SPECIAL EXAM 2023
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(h)	At what 1	time did	the	motorist	return	to	town	X
(h)	At what I	(IIIIe ulu	LIIC	IIIOCOLISC				

(01 Mark)

(c) Calculate the average speed of the motorist for the whole journey while travelling.

(01 Mark)

END