Mathematics PM

17/07/ 2023 09: 00 AM -11: 00 AM



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Province/ City	District Sector S	chool	Level	Pupil	Year
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RE	GISTRATION	FORM			

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2022-2023 **MATHEMATICS**

Duration: T	wo hours
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Marks:

/100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) Attempt ALL questions in this paper.
- 3) Read each question carefully before answering it.
- 4) Answer the questions in the space provided in this question paper.
- 5) Show your working clearly. Marks will be given for showing steps.
- 6) All rough work must be done in the space under each question.
- 7) You must use a blue or black pen.
- 8) You are allowed to use a ruler, and a protractor.
- 9) You are **NOT** allowed to use a calculator.

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ATTEMPT ALL QUESTIONS IN THIS PAPER (100 marks)

Do rough work below each question	Show the working steps and
	final answer in this column
1) Write the following number in words: 59,648,205 (2 marks)	·
2) Write the place value of digits 5 and 4 in the number 6,859,174. (2 marks)	
3) Add vertically 4,985,678 + 2,378,522 =	
(2 marks)	
4) Use <, > or = to compare the following:	
a) 260,340 260.340 (1 mark)	
b) 25,159,000 25159x1000 (1 mark)	

<u></u>	Round off 14.9781 to the nearest	(2 marks)	13
5)	Round on a	(-	A STATE OF THE STA
			V at the second
			18 14 14 14 14 14 14 14 14 14 14 14 14 14
			490
6)	Find the missing two numbers:	in the	147, 47
٠,	sequence below.		
	(a) 3; 8; 13;18;	(2 marks)	
	(=, =, =, ==,		
			12
		,	
			A THE
7)	Define an "obtuse angle".	(2 marks)	
		. ,	
			-
8)	Define the term "Probability" of an		
	of an	event.	and the second
		(2 marks)	
		,	
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	22-2023 NESA (National Examination an	nd School Inspec	Office A 41
			etion Authority) PM-Page 4 of 12

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9) Convert 0.54 into fraction and single answer completely.	nplify the (2 marks)	
10) Calculate 20% of 300.	(2 marks)	
11) Work out the following integers:		
a) (-10) - (-8)	(1 mark)	
b) $(+8) x(-5) =$	(1 mark)	
12) Use quick multiplication to calculate following:	e the	
567 × 99=	(2 marks)	

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13) Find $\frac{2}{3}$ of 21.	(2 marks)	
4) Write the multiples of 3 between		
	(2 marks)	
5) Find the LCM of the numbers 36,	84 and 75	
,	(2 marks)	
		7 4 5 2 1 1 1 1
Workout the following:		
4.5 kg + 13.6 dag = kg	12	
	(2 marks)	
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00000		- 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

17) Find the value of angle **p** in the figure below if **p** is the supplementary angle of 130°.

(2 marks)

p 130°

18) The interior angle of a regular polygon is 108°. Find its exterior angle.

(2 marks)

19) Fill in the missing numbers

$$_{(a)}\frac{2}{3}=\frac{8}{.}$$

(1 mark)

(b)
$$\frac{4}{5} = \frac{.}{20}$$

(1 mark)

 0.1×0.36

20) Workout

0.09

(2 marks)

21) The diameter of a circular ring is 21 cm. What	
is its circumference? Take $\pi = \frac{22}{7}$ (2 marks)	
2) Convert the following units:	
$14 \text{ m}^3 = \dots \text{dal} = \dots \text{kg}$ (2 marks)	
23) A rectangular box has 65 cm length, 40 cm width and 28 cm height. Calculate the volume	
of the box. (2 marks)	
(= ===================================	
A) Anine and Bollen shared 25 sweets in the	
each get?	
(2 marks)	
(5) Arrange the following numbers in ascending order:	
order:	1

(2 marks)

5; 0.56, 2; $\frac{3}{10}$, 0.09

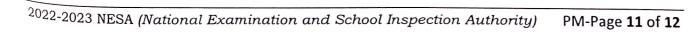
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26) After increasing a number by 15%, it became 34,500. What is the number? (3 marks)	
27) Workout $\left(\frac{3}{5} + \frac{2}{5}\right) \div \frac{1}{2} =$ (3 marks)	
28) Solve the following equation: $4-x=5x-8$ (3 marks)	
29) A private school has 617 pupils. If one pupil pays 152 800Frw in school fees per term, how much money do they pay altogether in one term? (3 marks)	

30) Electric poles are fixed along one side of a 16 km section of a road. This was to light the road. The poles are placed 10 m apart from each other. How many poles are fixed? (3 marks)	
31) A father earns a salary of 250 000 Frw in a	
month. He spends his money as follows: Rent: 30 000 Frw School fees: 55 000 Frw Food: 35 000 Frw Transport: 15 000 Frw. He saves the remaining money.	
a) How much does he spend in total each month? (3 marks)	
b) How much does he save each month? (2 marks)	
c) Why do you think it is important for the father to save? (2 marks)	
32) Bus nº1 travelling at 60 km/h left Kigali at	
8:30 a.m. Bus n°2 travelling at 80 km/h followed it after 1 hour.	
a) When did Bus n°2 overtake Bus n°1? (5 marks)	
b) What distance had both Buses covered? (2 marks)	
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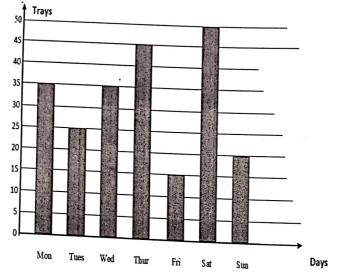
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33) A business woman borrowed 480, from UMURENGE SACCO for 2 ye interest rate offered was 12% per year	000Frw ars. The ear.		
a) How much interest did she pay	back?		
a) 110	(4 marks)		
b) What amount did she pay to U	MURENGE		
SACCO?	(3 marks)		
pheco.	(
		,	
maize flour costs 400 Frw per kg. 2 yellow maize flour costs 450 Frw p the white maize flour costs 350Frw Find the kilograms for the white m	er kg and per kg. aize flour.		
	(7 marks)		
	,		
		* ,	
			1





35) Study the diagram below which shows the number of eggs harvested by a Company (in trays) for a whole week from Monday to Sunday.



- a) How many days are shown on the graph? (1 mark)
- b) Find the number of trays collected in the whole week. (1 mark)
- c) On which day did the company collect the smallest number of trays of eggs? (1 mark)
- d) On which day did the company collect the biggest number of trays of eggs? (1 mark)
- e) On which day did the company collect the same quantity of trays? (1 mark)
- f) If one tray of eggs was sold at 4500Frw, how much money did the company get from eggs in a week? (2 marks)