Mathematics

PM

01 /11/ 2016 09: 00-11: 00 AM



Province Distr	ict Sector	School	Pupil
Pupil's names			
Surname:		*************	
Other names:			

NB: PUPIL'S INDEX NUMBER AND NAMES **MUST** BE WRITTEN AS THEY APPEAR ON THE REGISTRATION FORM.

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2016

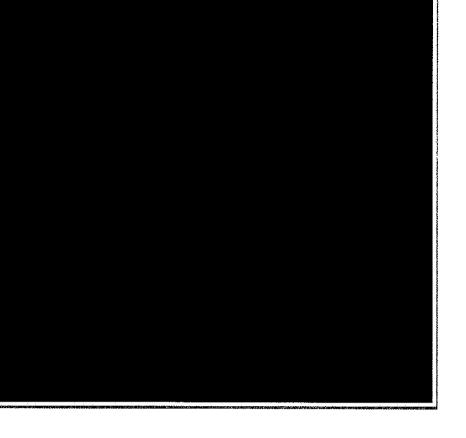
MATHEMATICS

Duration: Two hours

Marks: /100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) This paper consists of 12 pages and 35 questions. Before starting, check if all pages and all questions are there and are arranged in ascending order.
- 3) Answer ALL questions in this paper.
- 4) Read each question carefully before answering it.
- 5) Answer the questions in the space provided on this question paper.
- 6) Show your working clearly. Marks will be given for showing steps. 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.



ANSWER ALL QUESTIONS IN THIS PAPER. (100 MARKS)

YOU MAY DO ROUGH WORK IN THE SPACE PROVIDED BELOW EACH QUESTION.	E GIVE YOUR ANSWERS IN THE SPACE PROVIDED IN THIS COLUMN. SHOW THE WORKING STEPS.
1) Round off 594,740 to the nearest thousan (2mark	
2) Write the following number in words: 540,032 (2mark	ks)
3) Compare the numbers below, using the sign <, > or = (2mark $\frac{5}{11}$ 0.677	s)
4) Find the missing number to make the statement correct: (2mark 39×(82+□)=39×100	s)
5) Add: 2.4263+3.02= (2mark	is)
6) Fill in the next two missing numbers: 2; 4; 16;; (2mark	(S)

7) Express 5% as a fraction in the	e lowest	
terms.	(2marks)	
	(
$a^2 \div b$		
8) Evaluate $\frac{a^2 \div b}{c-d}$, if $a = 3$; $b = -3$;	c = 2 and	
d=5.	(2marks)	
9) Convert:		
	44	
(a) 43,000g = kg	(1mark)	
(b) 5.5 tons = kg	(1mark)	
(5) 515 651,5	(= =====	
10) Find the circumference of a circ		
radius is 5cm. (Use π =3.14)	(2marks)	
		'
		·
1		
11) Express the number $1\frac{1}{5}$ as a	percentage.	
5		
	(2marks)	
	•	
		•
		·

	12) Use a quick multiplication to calculate the product 84×49. (2marks)	
7	13) If angles k and 70° are supplementary, find the size of angle k. (2marks)	
	14) Solve the equation to find the value of X: 3(x+2)=21 (2marks)	
	15) Is the number 835,879 divisible by 11? Show how you arrive at the answer. (2marks)	
	16) Find the highest common factor (H.C.F) of 112 and 168. (2marks)	

17) Find the average age of four child	ren whose		
respective ages are 4 years, 6 year			
and 10 years.	(2marks)		
18) BWUZU bought a shirt at 6,000Fr	rw. He		
sold it at 7,200Frw. What was his			
	(2marks)		•
	,		
19) Given the number 500.073, what	ic the		
place value:	18 1116		
(a) of 5?	(1mark)		
() :	(= ====,		
d > 4-			
(b) of 7?	(1mark)		•
00) (TI			
20) The cost of 5 bottles of orange juic			,
4,000Frw. What is the cost of 3 bo the same juice?			
the same juice:	(2marks)		
			;
		·	

Γ	21) Arrange the following fractions in	
	3 5	
	descending order: $\frac{3}{8}$; 0.25; $\frac{5}{12}$ (2marks)	
	- 12	
1		
-	00) 7: 1.1 1 00	
	22) Find the volume of firewood in a stack of	
-1	3m by 2m by 3m in decisteres (dst).	
	(2marks)	
	†	
	23) Add:	
	7hours 25minutes + 1hour 45minutes	
	(2marks)	
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1		
	24) Draw the following angles:	
	(a) Reflex angle. (1mark)	
	(b) Right angle (1mark)	
	(~) 108110 011810	
	i l	-

25) Calculate: $\frac{1}{2} + \frac{1}{4} - \frac{1}{5}$ (2marks))
26) Find the lowest common multiple (LCM) of	
48 and 64. (3marks	
·	
27) Change 25 _{ten} to base three. (3marks	
28) If 0.20 of a number is 40, what is the number? (3marks)	
(Oliains)	
29) Calculate the volume of a cone whose	
radius is 6cm and height is 10cm.	
(use $\pi = 3,14$) (3marks)	
:	

		·	
30) Calculate the sum of interior ang regular hexagon.	gles of a (3marks)		
31) The figure below is a rectangular whose length is 5cm, width 4cm 3cm.	r prism and height		
3cm 4cm			
Calculate: (a) the total surface area.	(5marks)		
<u> </u>			
(b) the volume.	(2marks)		

32) The table (P6) class	belo	ow sh	iows	how	prim	ary si	X	(a)		
out of 100).	cu II.	ı mırg	11011	CSE.	IIIai K	zu	Marks	Frequency	
Marks	60	40	70	35	10	15		(x)	(f)	(fx)
Frequency	8	1	3	4	5	4		70	3	
				<u> </u>		<u> </u>				
(a) Complete	the	table	acro	ss.		(4m	arks)			
									Sum of (f)=	Sum of (fx)=
										
(b) How man	y pu	pils a	ıre in	P6?		(1n	ark)	(b)		
(c) Find the a	avera	ge m	ark o	f the	clas	دې		(-)		
(-)	., 010	.S	JULIE O	i tiit	CIGO		arks)	(c)		
33) In a class English, 1 pupils like at least on	0 pu botl	pils l h sul	ike M ojects	lathe . Eac	mati	ics an				
					* *					
(a) Represent diagram.	tnis	mioi	mati	on or		enn (3ma	rks)			

(b) Find, x, the number of pupils who like both subjects. (4marks)	
 34) A man spent ¹/₃ of his money on buying food, and ¹/₆ of the remainder on communication. (a) What fraction of his money was he left with? (5marks) 	
(b) If he was left with 15,000Frw, how much did he have at the beginning? (2marks)	

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35) A trader borrowed 600,000Frw from a	
bank at an interest rate of 6% per year.	
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(a) How much interest must he pay after	
five (5) months? (5marks)	
(b) What amount will the trader pay	
altogether? (2marks)	
	(