

MATHEMATICS PLE 2016 EXTRACT

PUPIL'S COMPLETE INDEX NUMBER

Province/city

0	3
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District

0	6
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Sector

0	9
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School

0	5
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Pupil

0	4	3
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PUPIL'S FULL NAME

Sur name

: Rutwaza

Other names

: David

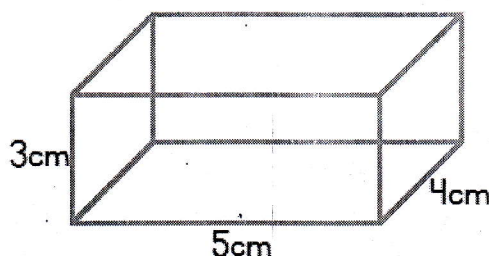
1	Round off 594,740 to the nearest thousands. (2 marks)	2	Write the following number in words: 540,032 (2 marks)
3	Compare the numbers below, using the sign <, > or = (2 marks) $\frac{5}{11}$ _____ 0.677	4	Find the missing number to make the statement correct: (2 marks) $39 \times (82 + \underline{\hspace{1cm}}) = 39 \times 100$
5	Add: $2.4263 + 3.02$ (2 marks)	6	Fill in the next two missing numbers: (2 marks) 2 ; 4 ; 16 ; _____ ; _____
7	Express 5% as a fraction in the lowest terms. (2 marks)	8	Evaluate $\frac{a^2 \div b}{c - d}$, if $a = 3$; $b = -3$; $c = 2$ and $d = 5$ (2 marks)

9	Convert: (2 marks) (a). 43,000g = _____ kg (b). 5.5 tons = _____ kg	10	Find the circumference of a circle whose radius is 5cm. ($\pi = 3.14$) (2 marks)
11	Express the number $1\frac{1}{5}$ as a percentage. (2 marks)	12	Use a quick multiplication method to calculate the product 84×49 (2 marks)
13	If angle k and 70° are supplementary angles, find the size of angle k. (2 marks)	14	Solve the equation to find the value of x: $3(x + 2) = 21$ (2 marks)
15	Is the number 835,879 divisible by 11? Show how you arrive to the answer. (2 marks)	16	Find the highest common factor (H.C.F) of 112 and 168. (2 marks)
17	Find the average age of four children whose respective ages are 4 years, 6 years, 8 years and 10 years. (2 marks)	18	Bwuzu bought a shirt at 6,000Frw. He sold it at 7,200Frw. What was his percentage profit? (2 marks)

19	Given the number 500.073, what is the place value; (2 marks) (a). of 5? (b). of 7?	20	The cost of 5 bottles of orange juice is 4,000Frw. What is the cost of 3 bottles of the same juice? (2 marks)
21	Arrange the following fractions in descending order: $\frac{3}{8}$; 0.25 ; $\frac{5}{12}$ (2 marks)	22	Find the volume of firewood in a stack of 3m by 2m by 3m in desteres (dst). (2 marks)
23	Add: (2 marks) 7 hours 25 minutes + 1 hour 45 minutes	24	Draw the following angles: (2 marks) (a). Reflex angle (b). Right angle
25	Calculate: $\frac{1}{2} + \frac{1}{4} - \frac{1}{5}$ (2 marks)	26	Find the lowest common multiple (LCM) of 48 and 64. (3 marks)
27	Change 25_{ten} to base three. (3 marks)	28	If 0.20 of a number is 40, what is the number? (3 marks)

29	Calculate the volume of a cone whose radius is 6cm and height is 10cm. (use $\pi = 3.14$) (3 marks)	30	Calculate the sum of interior angles of a regular hexagon. (3 marks)
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- 31 The figure below is a rectangular prism whose length is 5cm, width is 4cm and height is 3cm.



Calculate:

(a). the total surface area (5 marks)

(b). the volume (2 marks)

- 32 The table below shows how primary six (P.6) class scored in English Test marked out of 100.

Marks	60	40	70	35	10	15
Frequency	8	1	3	4	5	4

(a). Complete the table below. (4 marks)

Marks (x)	Frequency (f)	(fx)
70	3	
	Sum of (f) =	Sum of (fx) =

(b). How many pupils are in P.6?
(1 mark)

(c). Find the average mark of the class? (2 marks)

33 In a class of 16 pupils, 8 pupils like English, 10 pupils like Mathematics and x pupils like both subjects. Each pupil likes at least one of the subjects.

(a). Represent this information on a Venn diagram. (3 marks)

(b). Find, x , the number of pupils who like both subjects. (4 marks)

34 A man spent $\frac{1}{3}$ of his money on buying food and $\frac{1}{6}$ of the remainder on communication.
(a). What fraction of his money was he left with? (5 marks)

(b). If he was left with 15,000Frw, how much did he have at the beginning? (2 marks)

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

(b). What amount will the trader pay altogether? (2 marks)