

MATHEMATICS PLE 2021 EXTRACT

PUPIL'S COMPLETE INDEX NUMBER				
Province/city	District	Sector	School	Pupil
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PUPIL'S FULL NAME				
Surname : _____				
Other names: _____				

1	Write the following numbers in words. 2,9802,604	2	Write the place value of digit 6 in the number 4567891
3	Round off 86948 to the nearest thousands	4	Workout without using a number line. a) $(+4) \times (-8) =$ b) $(+12) : (+3) =$
5	Find the least multiple of numbers 6, 12 and 18.	6	Workout $(\frac{2}{3} \times \frac{15}{4}) : \frac{5}{6} =$
7	Calculate the value of $3x^2y - xz$ if $x = -1$ and $z = 4$	8	Calculate the price of 12kg of beans if 6kg cost 2760frw.

9	Decrease 8000 by 14% .	10	Convert $9\frac{2}{5}$ into decimals.
11	Workout $23\text{kg} + 50\text{kg} = \dots\dots\dots\text{g} = \dots\dots\dots\text{mg}$	12	Simplify $9a^4b^3 \div 3a^2b =$
13	Find the two missing fractions in the sequence below: $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots\dots\dots, \dots\dots\dots$	14	Use quick arithmetic to work out the following: $84 \times 25 =$
15	Express 72 as a product of its prime factors.	16	Subtract: $3\frac{1}{4} - 2\frac{3}{8} =$
17	A school library has 120shelves with 98 books each . How many books are there in the library?	18	Eric has 5 notes of 2000frw , 2 notes of 5000Frw and 20 notes of 500F. Calculate the total amount of money he has.

19	Find the circumference of a circular garden whose radius is 24cm. (use $\pi=3,14$)	20	Find the number whose square root is 16.
21	Find the complement of 60°	22	Evaluate $5^2 + 4^4 =$
23	Convert 18000sec=.....hours..... mm	24	Workout $\frac{\sqrt{400} + \sqrt{625}}{\sqrt{100}} =$
25	Solve the equation $(2x - 1) = 5(x - 2)$	26	The height of the right angle triangle is 3cm and its hypotenuse is 5cm. (a) Calculate the length of the 3rd side of the triangle in cm. (b) Calculate the area of the triangle.
27	20% of a number is 60. What is the number?		

28	<p>In a class there are 60 children. The ratio of boys to girls is 2:3 respectively.</p> <p>a) How many boys are in the class?</p> <p>b) How many girls are in the class?</p>	29	<p>Mary spends 125,000 FRW on buying food. This is 5% of her monthly salary. How much is her salary?</p>
30	<p>A car took 6 hours to cover a distance. It moved at a speed of 90 km/hr. Calculate the distance it covered.</p>	31	<p>a) Find the interior angle sum of a pentagon</p> <p>b) How many sides does a hexagon have?</p>
32	<p>a) An amount of money gained an interest of 144,000 FRW. It was invested for 9 years. If the simple interest rate is 6%. Calculate the principal amount.</p> <p>b) Convert 8.09 into a fraction and show your working.</p>		<p>c) Find the centre angle of a regular hexagon.</p>

33	<p>a) Kamana bought a bicycle at 60000frw and after a short period of time sold it at 50000frw .</p> <p>i) Calculate his loss.</p> <p>ii) Calculate the percentage loss .</p> <p>b) Calculate the simple interest of 48000000frw at 6% rate for three months .</p>	34	<p>Fifi mixed 4kg of yellow maize flour with unknown quantity of white maize flour. The cost price of the mixture was 800frw per kg.</p> <p>Yellow maize flour cost 900frw per kg and the white maize flour costs 700frw per kg when not mixed.</p> <p>Find the quantity in kilograms of the white maize flour used.</p> <p>Show your working.</p>
35	<p>The data below shows marks obtained (out of 100) by pupils in an English test.</p> <p>88 56 56 76 23 10 89 90 43 23 50 12</p> <p>54 76 23 22 43 54 29 74 66 43 12 64</p> <p>a) Represent this data in a table of two columns (column 1 Marks, column 2 number of pupils obtaining those marks.</p> <p>b) How many pupils did the test?</p> <p>c) How many pupils scored 76% marks?</p> <p>d) How many pupils got less than 50% marks?</p> <p>e) What was the highest mark scored?</p>		