# MATHEMATICS PLE 2022 EXTRACT

**PUPIL'S COMPLETE INDEX NUMBER**

| Province/city | District | Sector | School | Pupil |
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| ☐☐ | ☐☐ | ☐☐ | ☐☐ | ☐☐☐ |

**PUPIL'S FULL NAME**

Surname :_____

Othernames:_____

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| 1 | Write the following numbers in in figures. Nine million nine thousand eighty seven. | 2 | Write the place value of digit 7 and 1 in the number180,493.27 |
| 3 | Arrange the following numbers from the lowest to the highest.,$\frac{2}{3}$, 0.5, 100, −100, 0.82, −1, 5 | 4 | Convert 432,000sec=.....days.....hours |
| 5 | Find the next two numbers in the following sequence.<br>3, 9, 27, 81, ....., ..... | 6 | Use the divisibility test method to check if 23,760 is divisible by 11. |
| 7 | Solve 4x - 8 = 10x - 20 | 8 | Workout $\frac{3}{4}x(\frac{2}{5}+\frac{3}{7})=$ |

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| 9 | Calculate 4.5kg + 113dag = .....kg | 10 | 4% of the learners in P5 are boys. If there are 45 boys in class, how many learners are in the class? |
| 11 | Simplify $\frac{\sqrt{225}+\sqrt{169}}{\sqrt{16}} =$ | 12 | Calculate the sum of 524,321 and 17,674,329 |
| 13 | One mathematics book costs 5,200frw. How much do 8 similar books cost? | 14 | Multiply 896,327 by 121. |
| 15 | Use quick multiplication to calculate.<br>$625 \times 99 =$ | 16 | Workout the following without using a numberline.<br>a) (-6) +(+2)=<br>b) (+12)x(-8)= |
| 17 | Find the greatest common factor (GCF) of 24 , 36 and 40. | 18 | A class of 56 pupils. There are 14boys in the class. Find the ratio of boys to girls in the class. |

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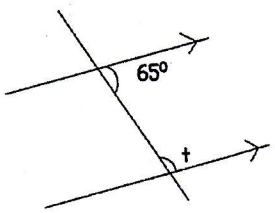
| 19 | Gakire has 12 notes of 2,000Frw, 20 notes of 5,000Frw, 15 notes of 500Frw and 10 coins of 100Frw. Calculate the total amount of money that Gakire has. | 20 | Round off 4,620,850 to the nearest hundred thousands. |
| 21 | Simplify $5^6 \times 5^2 \div 5^3 =$ | 22 | Find the size of angle t in the figure below.<br>  <br> |
| 23 | Convert $\frac{10}{16}$ into a decimal number. | | |
| 24 | During COVID 19 lockdown, a certain cell volunteers distributed equally 7,827,831 kg of beans among 333 families. How many kgs did each family get? | 25 | Use measurement table to convert the following.<br>a) $26dm^3$ = .....hg<br>b) 9,700$l$= $m^3$ |

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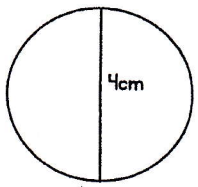
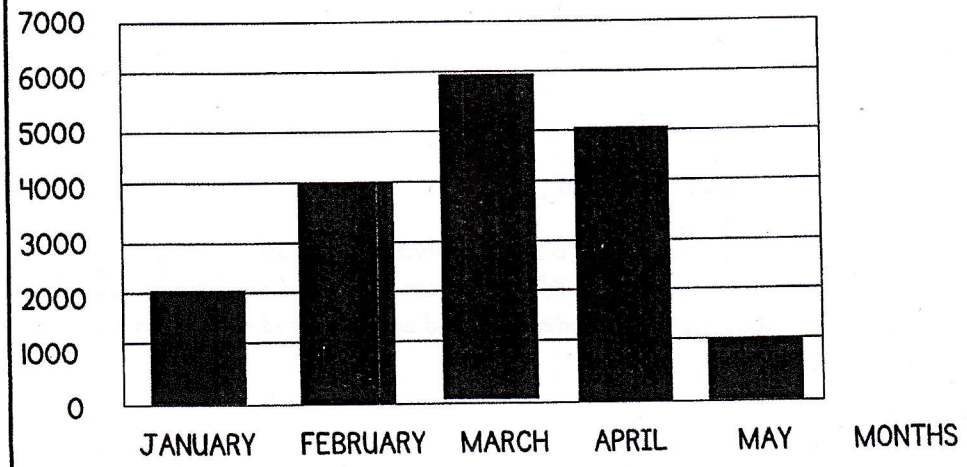
| 26 | Calculate the circumference of the figure below (use $\pi = \frac{22}{7}$)<br>  <br> | 27 | Electric poles are fixed 20 metres apart. Find the distance from the first to 101$^{th}$ pole. |
| 28 | A man covered 120km of a journey. This is only $\frac{3}{4}$ of the whole journey. Calculate the total distance covered for the whole journey. | 29 | A trader bought a radio at 950,000Frw. He later sold it to a customer at1,250,000Frw. What was the percentage profit? |
| 30 | The LCM of two numbers is 40. One of the numbers is 20. If their GCF is 5. Find the second number. | | |
| 31 | a) The area of a rectangle table is 160m$^3$. If its width is 8m. find the length of the table.<br>b) A wooden box has a volume of 9,000,000cm$^3$ if its length is 2 m and width 1.5m.<br>i. Find its area<br>ii. Find its height. | | |

32 Study the graph below which shows the potatoes in kg sold at a shop in 5 months and answer the questions that follow.




a) In which month did the shopkeeper sell the highest quantity of potatoes?

b) In which month did the shopkeeper sell the smallest quantity of potatoes?

c) Find the total kilograms pf potatoes sold in all the five months.

d) If one kg of potatoes costs 550Frw. How much money did the shopkeeper get from the sale of potatoes in all five months?

33 A P6 pupil was sent to the market with 30,000Frw to buy the items shown in the table below. a) Complete the table.

| Items | Price/cost per item | Total amount |
|---|---|---|
| 3kg of beans | /kg | 3,000Frw |
| 6kg of sugar | 1,500Frw/kg | |
| 5kg of meat | /kg | 15,000frw |
| ..... Loaves of bread | 8000Frw/loaf | 2,400Frw |
| Total expenditure | | Frw |
| b) find the balance<br>Balance | | Frw |

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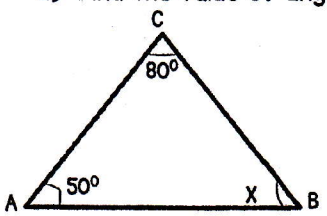
| 34 | a) Find the value of angle X in the triangle CAB below<br>  <br><br>b) Two vehicles A and B moved towards each other. They started moving at 9:00am and met at 11:00am. Their speeds were 60km/hr and 55km/hr respectively. What distance had each covered by the time they met? |
| 35 | a) By using the following digits 8, 0, 5, 7, 1, 6. Write the biggest whole number formed by these digits.<br><br>b) A business woman has 300kg/600kg of mixed beans which she sells at 280Frw/kg. If the mixture contains 200kg of the first type which costs 360Frw/kg. Find the price of one kg of the second type. |