REPUBLIC OF RWANDA

MINISTRY OF EDUCATION

EASTERN PROVINCE

NYAGATARE DISTRICT

**NEW LIFE NURSERY AND PRIMARY SCH.**

SET VI MATHEMATICS EXAM

PRE – PLE EXAMS

PUPIL’S COMPLETE INDEX NUMBER

|  |
| --- |
| CITY/PROVINCE D DISTRICT SECTOR SCHOOL STUDENT |

Sur Name: ……………………………………………………………………………………………………

Other Name: .......................................................................................................................................

1. ***Read each question carefully before attempting it.***
2. ***Attempt all numbers in both sections.***
3. ***Unnecessary crossing of work will lead to loss of marks***

|  |  |  |
| --- | --- | --- |
| 1. | Simplify : 4×12×21  3×18×14 |  |
| 2. | Add and correct your answer to two decimal places.  0.451 + 1.002 |  |
| 3. | Find the circumference of a circle whose diameter is **30cm** () |  |
| 4. | Find the mean of 9,3,7,8,5 and 5 |  |
| 5. | Calculate 0.84 × 25. |  |
| 6. | Arrange , , , in ascending order. |  |
| 7. | Express , as a mixed fraction. |  |
| 8. | Calculate 2hrs 30min – 1hr 45min |  |
| 9. | Find the square root of 100 |  |
| 10. | Find the missing numbers   1. 3, 8, ………., ………… 2. 1, 4, ………..., ………….. |  |
| 11. | Express 20 in terms of its prime factors |  |
| 12. | Write 3y + 5x – 2y + x in short form. |  |
| 13. | Find the value of x  x°  70° 40° |  |
| 14. | Solve: 3(x – 1) = x + 9 |  |
| 15. | Calculate 0.0135 × 0.003 |  |
| 16. | Which of the following numbers is exactly divisible by three(3)  172, 259, 510. |  |
| 17. | Subtract and simplify the answer 1 – |  |
| 18. | What is of 0.488? |  |
| 19. | Calculate and simplify ÷ ) × |  |
| 20. | Simplify: 5² + √65. |  |
| 21. | Simplify: √64 - √25  √9 |  |
| 22. | Share 28000frw between John and Peter in ratio of 3:2 respectively. |  |
| 23. | Simplify completely  3.2 × 2.8  0.7 × 8 |  |
| 24. | The ratio of angles of triangles is 4 3 2. Find the three angles. |  |
| 25. | To make one cake you use 1.25kg of flour. How many kg of flour will be used to make 6 cakes? |  |
| 26. | The volume of metal is 12cm³ and its weight is 96g. Find the density of the metal. |  |
| 27. | Calculate the HCF of 45 and 60. |  |
| 28. | Find the value of x.    x 160°  145° |  |
| 29. | Complete the sequence below.  2, 4, 12, 48, ………., ……… |  |
| 30. | Complete: 1hr min 2 sec = …………….sec |  |
| 31. | Calculate: (0.25 × 600) + 40 ÷ ) |  |
| 32. | Find the area f a rhombus whose side is 9cm. |  |
| 33. | Use quick method to calculate the following   1. 642 × 50 2. 222 × 49 |  |
| 34. | Arrange 0, –1, –8, 11, 17 in ascending order |  |
| 35. | A car travels 45km travels in 50min. How many km does the car travel in 2hrs |  |
| 36. | Calculate of 900g and express the answer in kg. |  |
| 37. | Find the area of a rhombus whose diagonals are 12cm and 18cm. |  |
| 38. | Simplify: ( ×2) ÷ . |  |
| 39. | The figure below is a semi – circle. Find its perimeter ( = 3.14)  10cm |  |
| 40. | Express as a decimal number |  |
| 41. | Find the sum of H C F and L C M of 6 and 8 |  |
| 42. | Use >, < or = to compare  0.06 ………………… |  |
| 43. | Calculate of 105000cm² and give the answer in m² |  |
| 44. | A boy is 3 years older than his sister the sum of their age is 25 years. How old is the sister? |  |
| 45. | Calculate of 162 + 0.2 of 80 |  |
| 46. | Write 2017 in Roman numerals. |  |
| 47. | Express: as a percentage |  |
| 48. | Complete: 0.4L = …………………..cm³ |  |
| 49. | Calculate: of 21 |  |
| 50. | Solve: 3m – 4 = 5 |  |