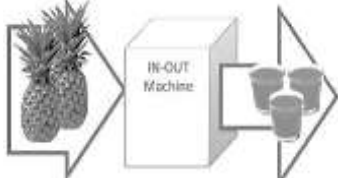


ARYABHATA MATHEMATICIAN OF THE YEAR
NUMERICAL ABILITY TEST 2017

NAME:- _____ Reg. No:- _____ GRADE - IV
 SCHOOL NAME: _____ CONTACT NO. _____

NO. OF QUESTIONS: 50 TOTAL MARKS: 50 TIME: 60 MINUTES

| SECTION-A | | a | b | c | d | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 1) How many squares have a number that is greater than 5? a) 9 b) 10 c) 11 d) 12 <table border="1" data-bbox="815 667 1054 808" style="display: inline-table; vertical-align: middle;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> </table> | 1 | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 | 6 | 3 | 4 | 5 | 6 | 7 | 4 | 5 | 6 | 7 | 8 | 5 | 6 | 7 | 8 | 9 | 6 | 7 | 8 | 9 | 10 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 7 | 8 | 9 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) In 1 trip a car can take 7 people. How many trips would be needed to move 33 people? a) 4 trips b) 5 trips c) 6 trips d) 3 trips | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) If my age 8 years ago was 8 years, what will my age be after 8 years? a) 22 b) 24 c) 16 d) 25 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) A hen lays some eggs this week. There are more than three eggs, less than six eggs but not four eggs. How many eggs does she lay? a) 5 b) 3 c) 4 d) 6 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5) Mita was born on 29 th February. Her birthday comes a) Every year b) twice in a year c) once in four years d) after every two years | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) Which city's name contains the greatest number of letters? a) Ahmedabad b) Bhubaneshwar c) Tiruchirappalli d) Thiruvananthapuram | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) At the next stop, three students get off while five get on. If initially there were 4 students in the bus, how many students are there in the bus now? a) 5 b) 7 c) 6 d) 8 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8) Tina arrived at the swimming pool at 9:15 AM and left at 1:45 PM. How many hours was Tina in the pool? a) 3 hours b) 7 hours c) 5 hours d) 4 hours | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9) How many pineapples would you need to take out 30 glasses of juice? a) 24 b) 25 c) 20 d) 30  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 10) Start from the circle. First go 2 blocks North , then go 1 block East . Then go 4 blocks South and then finally go 2 blocks West . Where do you reach? a) ✕ b) ▲ c) ✦ d) None of these | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | | | | |
| SECTION- B | a | b | c | d |
| 1) $\times 12=8\times 4\times 6$ a) 12 b) 24 c) 16 d) 8 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2) $12+13+14+15+16+17+18=$ a) 100 b) 95 c) 105 d) 110 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3) $(7\times 12) + (8\times 4\times 6) + (19\times 0) =$ a) 276 b) 295 c) 0 d) 294 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4) Which of these numbers has a digit in tens place that is greater than 5 ? a) 3512 b) 1924 c) 1876 d) 9808 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5) A teacher wrote an expression $9\times 3\times 3$. Which expression is equal to $9\times 3\times 3$? a) $3+3+9$ b) 9×9 c) $9+3+3$ d) 9×6 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6) $7500\div 5=?$ a) 1500 b) 1600 c) 105 d) 150 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7) $5500\times 2=?$ a) 11100 b) 11000 c) 1100 d) 1010 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8) What is the place value of 9 in 6798234 ? a) 9000 b) 90000 c) 900 d) 900000 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9) What is the difference between 15×15 and 10×11 ? a) 155 b) 125 c) 115 d) 110 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10) Which is largest? a) $(50-5)+8$ b) $(45+5)-2$ c) $(90-30)-13$ d) $(50+5)-9$ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11) The L.C.M. of 12, 16, 24 is a) 48 b) 54 c) 32 d) 46 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12) The H.C.F. of 16, 24, 40 : a) 8 b) 4 c) 2 d) 9 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 13) Multiply 85 by itself and divide the answer by 5 . a) 7225 b) 1440 c) 1445 d) 1455 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 14) What is the missing number in 8x9=.....9+9? a) 45 b) 54 c) 43 d) 46 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 15) Twenty five less than hundred added to twenty is equal to a) 100 b) 120 c) 105 d) 75 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 16) What is the length of the side of a square whose perimeter is 104 cm? a) 100 b) 26 c) 108 d) 28 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 17) Find the perimeter of the rectangle whose length and breadth are 8 cm and 12 cm respectively? a) 40 cm b) 20 cm c) 96 cm d) 54 cm | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 18) Area of a rectangle is 143 cm ² . If the length of the rectangle is 13 cm, find its breadth? a) 11 cm b) 13 cm c) 130 cm d) 156 cm | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 19) The value of $\frac{\square}{\square} + \frac{\square}{\square} \div \frac{\square}{\square}$ is a) $1\frac{1}{10}$ b) $\frac{6}{11}$ c) $\frac{4}{7}$ d) $1\frac{3}{5}$ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 20) The value of $6\frac{\square}{\square\square\square\square}$ in decimal is a) 0.0067 b) 6.007 c) 6.070 d) 67.001 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 21) The value of $2 \times 10 + \frac{\square}{\square\square} + \frac{\square}{\square\square\square} + \frac{\square}{\square\square\square\square}$ in decimals is a) 20.309 b) 23.009 c) 203.09 d) 2.039 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 22) The number which is neither prime nor composite is a) 3 b) 2 c) 1 d) 5 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 23) The difference of the place values of two 5 s in 351520 is a) 49500 b) 50000 c) 45900 d) 495000 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 24) All the factors of 42 are a) 1, 2, 14, 21 b) 1, 2, 3, 14, 21 c) 1, 2, 3, 7, 14, 21, 42 d) 3, 7, 14, 21, 42 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 25) Find the answer: Rs 7.04 + Rs 5.86 a) ₹ 13.06 b) ₹ 12.90 c) ₹ 12.64 d) ₹ 12.862 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| SECTION-C | | | | |
| 1) What time will the clock show in 55 mins? a) 10:30 b) 10:15 c) 10:25 d) 10:20 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |



| | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| 2) Ram was born in 2008 . How old will he be after 6 years? a) 15 years b) 14 years c) 17 years d) 12 years | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3) Ann put 25 candies in a packet. Then she put twice as many more candies in the packet. How many candies are in the packet now? a) 50 b) 100 c) 75 d) 55 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4) 3 weeks and 9 days is same as a) 39 days b) 30 days c) 24 days d) 35 days | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5) The cost of one pair of shoes is Rs 425 . What is the cost of 15 pairs of shoes? a) 6375 b) 6475 c) 5375 d) 6675 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6) Sangeeta is 10 years old. Her brother is 3 years 4 months younger. How old is her brother? a) 13 years 4 months b) 7 years 4 months c) 6 years 8 months d) 7 years 8 months | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7) Which of the following is a leap year? a) 2002 b) 2010 c) 1964 d) 2014 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8) 10 glasses of chocolate milkshake cost Rs 322.65 . What is the cost of 1 glass? a) Rs32 b) Rs 32.26 c) Rs32.65 d) Rs22.65 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9) In a class of 35 students, $\frac{\square}{\square}$ were boys. What was the number of girls? a) 22 b) 30 c) 23 d) 25 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10) Alam bought 35 stickers. He gave 7 stickers to his sister. What fraction of stickers was left with him? a) $\frac{7}{35}$ b) $\frac{35}{7}$ c) $\frac{4}{5}$ d) $\frac{1}{5}$ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

SECTION-D

| | | | | |
|--|----------------------------------|-----------------------|-----------------------|-----------------------|
| 1) If $23 \frac{\square}{\square} = 23 + (\blacktriangle + \blacktriangle + \blacktriangle + \blacktriangle)$ the value of \blacktriangle a) $\frac{2}{3}$ b) $\frac{1}{6}$ c) $\frac{1}{2}$ d) $\frac{5}{3}$ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2) In a clock, the hour hand is pointing between digits 7 and 8 , and the minute hand is pointing at 8 . What is the current time? a) 7:40 b) 7:35 c) 8:40 d) 8:30 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3) The table shows description of four printers. Which is the slowest? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Printer 1 | Print 6 pages per second | | | |
| Printer 2 | Print 30 pages per minute | | | |

| | | | | | |
|--|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Printer 3 | Print 25 pages per minute | | | | |
| Printer 4 | Print 1 page every four seconds | | | | |
| a) Printer 1 b) Printer 2 c) Printer 3 d) Printer 4 | | | | | |
| 4) After buying 8 chocolates for ₹15 each, Tim is still left with ₹6. How much money did he have at first? | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| a) ₹126 b) ₹120 c) ₹130 d) ₹105 | | | | | |
| 5) If the letters of the English alphabet are written in order, what will the letter at the 11 th place on the right of letter J? | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| a) T b) U c) V d) S | | | | | |