1. If the unit’s digit in the product of (47X  729  345  343) is 5, then how many values that X can take ?

(a) 9 (b) 3 (c) 7 (d) 5

1. The rightmost non - zero digit of the number 302720 is ? (a) 1 (b) 3 (c) 7 (d) 9
2. What are the respective digits in the unit’s place in the expansions of 77 and 177 ?

(a) 2, 6 (b) 3, 3 (c) 1, 4 (d) 9, 9

1. Find the last digit of 222 333 444 555 ?

(a) 2 (b) 4 (c) 8 (d) 0

1. What will be the last digit of the multiplication 3153 7162 ? (a) 5 (b) 9 (c) 7 (d) 6
2. Find the unit digit of 3200 4500 ?

(a) 2 (b) 4 (c) 8 (d) 6

1. What is the units digit of the product (5 + 1) (52 + 1)(53 + 1)(54 + 1) ……(52000 + 1)(52001 + 1) ?
   1. 6 (b) 7 (c) 8 (d) None of these
2. A young girl counted in the following manner on the fingers of her left hand. She started calling the thumb 1, the index finger 2, middle finger 3, ring finger 4, little finger 5, then reversed direction, calling the ring finger 6, middle finger 7, index finger 8, thumb 9 and then back to the index finger for 10, middle finger for 11, and so on. She counted up to 1994. She ended on her ?
   1. Thumb (b) index finger

(c) middle finger (d) ring finger

1. P and Q are two positive integers such that that PQ = 64. Which of the following cannot be the value of P + Q ?

(a) 20 (b) 65 (c) 16 (d) 35

1. Three consecutive whole numbers are such that the square of the middle number is greater than the product of the other two by one. Find the middle number ?
   1. 6 (b) 12 (c) 18 (d) All of these
2. The sum of three consecutive integers is 39. What is the largest among the three ?
   1. 12 (b) 15 (c) 13 (d) None of these
3. The product of two consecutive numbers is 3192. What is the smallest of the two numbers ?

(a) 57 (b) 58 (c) 56 (d) 59

1. The sum of squares of four consecutive natural number is 5334. The smallest of these numbers is :

(a) 37 (b) 41 (c) 33 (d) 35

# HOME EXERCISE

**NUMBER SYSTEM -1**

1. In the equation given below A, B, C, D & E are the five consecutive positive integers, then what is the value of A +

E? A2 + B2 + C2 = D2 + E2

(a) 24 (b) 15 (c) 17 (d) 19

1. If ‘n’ is an even integer, then which of the following must be an odd integer?

(a) 3n - 2 (b) 3(n+1) (c) n - 2 (d)

1. Find the number of zeros at the end of 1 × 2 × 3 × 4 × 5 × 6 .......... × 99 × 100?

(a) 22 (b) 24 (c) 26 (d) 28

1. Find the number of zeros at the end of 2 × 4 × 6 × 8 × 10 × ....... × 98 × 100

(a) 10 (b) 11 (c) 12 (d) 15

1. Find the number of zeros at the end of 10 × 20 × 30 × ...... × 2000

(a) 222 (b) 249 (c) 226 (d) 220

1. For what value of ‘n’ the number 274 + 22058 + 22n is a perfect square?

(a) 491 (b) 893 (c) 1029 (d) 2020

1. X, Y, Z and W are integers. The expression X – Y – Z is even and the expression Y – Z – W is odd. If X is even what must be true?
   1. W must be odd (b) Y – Z must be odd

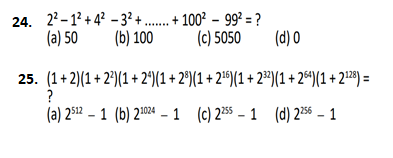
(c) Y must be even (d) Z must be odd

1. In a set of 30 numbers, average of first 10 numbers = average of last 20 numbers. Then the sum of the last 20 numbers is?
   1. 2X times the sum of first ten numbers
   2. 2X times the sum of first ten
   3. Same as sum of first ten numbers
   4. Z must be odd
2. In all the number from 501 to 700 are written, what is the total number of time does the digit 6 appear ?

(a) 138 (b) 139 (c) 140 (d) 141

1. How many numbers are there from 1 to 500 in which the digit ‘4’ comes at any place ?

(a)180 (b) 176 (c) 100 (d) None of these



Answer key:-

|  |  |
| --- | --- |
|  | D |
|  | A |
|  | B |
|  | D |
|  | C |
|  | D |
|  | A |
|  | B |
|  | D |
|  | D |
|  | D |
|  | C |
|  | D |
|  | A |
|  | B |
|  | B |
|  | C |
|  | B |
|  | D |
|  | A |
|  | A |
|  | C |
|  | B |
|  | C |
|  | D |