Q1: Fill in the blanks.

(1) The smallest whole number is …….

(2) The smallest natural number is …….

(3) Difference between the 5-digit smallest number and the 4-digit largest number is …….

(4) Any number divided by 0 is not …….

(5) The property used in 84 x 25 = 25 x 84 is …… .

(6) The property used in 80 x (60 + 3) = 80 x 60 + 80 x 3 is …… .

(7) The smallest number, shown by two dotted rectangles, is …….

(8) Every whole number except …… is a natural number.

(9) When any counting number is multiplied by zero, the product is …….

(10) When zero is divided by any non-zero whole number, the quotient is …….

Q2. Match the following

Column A	**Column B**
1. Commutative property	a. (a × b) × c = a × (b × c)
2. Associative Property	b. a (b + c) = ab + ac
3. Identity for multiplication	c. a + b = b + a
4. Distributive Property	d. a × 1 = a

Q3. Which of the following statements are true and which are false?

(i) Every whole number has its successor.

(ii) Every whole number has its predecessor.

(iii) 0 is the smallest natural number.

(iv) 1 is the smallest whole number.

(v) 0 is less than every natural number.

(vi) Between any two whole numbers there is a whole number.

(vii) Between any two non-consecutive whole numbers there is a whole number.

(viii) The smallest 5-digit number is the successor of the largest 4 digit number.

(ix) Of the given two natural numbers, the one having more digits is greater.

(x) The predecessor of a two digit number cannot be a single digit number.

(xi) If a and b are natural numbers a < b, than there is a natural number c such that a < b < c.

(xii) If a and b are whole numbers and a < b, then a + 1 < b + 1.

(xiii) The whole number 1 has 0 as predecessor.

(xiv) The natural number 1 has no predecessor.

Q4. Fill in the blanks :

(i) 54 + 234 = 234 + ……

(ii) 332 + 497 = …… + 332

(iii) 286 + 0 = …….

(iv) 286 x 1 = …….

(v) a + (b + c) = (a + ……) + c

Q5. By re-arranging the given numbers, evaluate:

(i) 237 + 308 + 163

(ii) 162 + 253 +338 + 47

(iii) 21 + 22 + 23 + 24 + 25 + 75 + 76 + 77 + 78 + 79

(iv) 1 + 2 + 3 + 4 + 596 + 597 + 598 + 599

Q6. State, True or False :

(i) The sum of two odd numbers is an odd number.

(ii) The sum of two odd numbers is an even number.

(iii) The sum of two even numbers is an even number.
(iv) The sum of two even numbers is an odd number.
(v) The sum of an even number and an odd number is odd number.

(vi) Every whole number is a natural number.

(vii) Every natural number is a whole number.

(viii) Every whole number + 0 = The whole number itself.

(ix) Every whole number × 1 = The whole number itself.

(x) Commutativity and associativity are properties of natural numbers and whole numbers both.

(xi) Commutativity and associativity are properties of addition for natural and whole numbers both.

(xii) If x is a whole number then –x is also a whole number.

Q7. Fill in the blanks :

(i) 8 – 0 = ……. and 0 – 8 = …….

8 – 0 ≠ 0 – 8, this shows subtraction of whole numbers is not …….

(ii) 5 – 10 = ……., which is not a ……

=> Subtraction of ……. is not closed.

(iii) 7 – 18 = ……. and (7 – 18) – 5 = …….

18 – 5 = ……. and (7 – 18) – 5 = …….

Is (7 – 18) – 5 = 7 – (18 – 5) ?

=> Subtraction of whose numbers is not …….

Q8. Represent the following numbers on the number line:

2, 0, 3, 5, 7, 11, 15

Q9. Represent the following whole numbers on a number line:
0, 3, 5, 8, 10

Q10. Write the 3 whole numbers which occur right before 10001.

Q11. How many whole numbers come between 32 and 53?

Q12. Arrange the following numbers is descending order:

925,786, 1100, 141, 325, 886, 0, 270

Q13. In each one of the following pairs of numbers given below, a state in which the whole number is on the left of another number on the number line. Also, write them with the suitable sign (>, <) between them.

(a) 530 and 503 (b) 370 and 307 (c) 98765 and 56789 (d) 9830415 and 10023001

Q14. Which property does the following statements hold?

(1) 6 + 4 = 4 + 6

(2) 3 + 2 = whole number

Q15. Add the following in three different ways. Indicate the property used.

(1) 25 + 36 + 15

(2) 30 + 18 + 22

Q21. Write the largest number of six digits and the smallest number of seven digits. Which one of these two is greater and by how much?

Q22. Write the whole number (in each of the following) whose successor is:

(i) 50795

(ii) 720300

(iii) 8300000

Q23. Write the whole number (in each of the following) whose predecessor is:

(i) 5347

(ii) 72399

(iii) 3012999

Q24. Is a + b + c = a + (b + c) = (b + a) + c?

Q25. Which property of addition is satisfied by:

(i) 8 + 7 = 15

(ii) 3+ (5 + 4) = (3 + 5)+ 4

Q28. Find the difference between the largest number of four digits and the smallest number of six digits.

Q29. Find the difference between the smallest number of eight digits and the largest number of five digits.