

## EXERCISE 2.1

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**1. Write the next three natural numbers after 10999.****Solutions:**

The next three whole numbers after 10999 are 11000, 11001 and 11002

**2. Write the three whole numbers occurring just before 10001.****Solutions:**

The three whole numbers occurring just before 10001 are 10000, 9999 and 9998

**3. Which is the smallest whole number?****Solutions:**

The smallest whole number is 0

**4. How many whole numbers are there between 32 and 53?****Solutions:**

The whole numbers between 32 and 53 are

(33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52)

Hence, there are 20 whole numbers between 32 and 53

**5. Write the successor of:**

(a) 2440701 (b) 100199 (c) 1099999 (d) 2345670

**Solutions:**

The successors are

(a)  $2440701 + 1 = 2440702$ (b)  $100199 + 1 = 100200$ (c)  $1099999 + 1 = 1100000$ (d)  $2345670 + 1 = 2345671$ **6. Write the predecessor of:**

(a) 94 (b) 10000 (c) 208090 (d) 7654321

**Solutions:**

The predecessors are

(a)  $94 - 1 = 93$ (b)  $10000 - 1 = 9999$ (c)  $208090 - 1 = 208089$ (d)  $7654321 - 1 = 7654320$ **7. In each of the following pairs of numbers, state which whole number is on the left of the other number on the number line. Also write them with the appropriate sign ( $>$ ,  $<$ ) between them.**

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

**Solutions:**(a) Since,  $530 > 503$ 

Hence, 503 is on the left side of 530 on the number line

(b) Since,  $370 > 307$