

Board – CBSE

Class – 6th

Topic – Whole Numbers Ex:2.1

Exercise -2.1

Q1. Write the next three natural numbers after 10999.

Sol. The next three natural numbers after 10999 are 11000, 11001 and 11002.

Q2. Write three whole numbers occurring just before 10001.

Sol. $10001 - 1 = 10000$

$$10000 - 1 = 9999$$

$$9999 - 1 = 9998$$

Hence, three whole numbers just before 10001 are 10000, 9999 and 9998.

Q3. Which is the smallest whole number?

Sol. 0 is the smallest whole number.

Q4. How many whole numbers are there between 32 and 53?

Sol. 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.

Q5. Write the successor of:

(a) 2440701

(b) 100199

(c) 1099999

(d) 2345670

Sol. (a) Successor of 244070 is $244070 + 1 = 244071$

Hence, successor of 244070 is 244071.

(b) Successor of 100199 is $100199 + 1 = 100200$

Hence, successor of 100199 is 100200.

(c) Successor of 1099999 is $1099999 + 1 = 1100000$

Hence, successor of 1099999 is 1100000.

(d) Successor of 2345670 is $2345670 + 1 = 2345671$

Hence, successor of 2345670 is 2345671

Q6. Write the predecessor of:

(a) 94

(b) 10000

(c) 208090

(d) 7654321

Sol. (a) Predecessor of 94 is $94 - 1 = 93$

Hence, predecessor of 94 is 93.

(b) Predecessor of 1000 is $1000 - 1 = 999$

Hence, predecessor of 1000 is 999.

(c) Predecessor of 208090 is $208090 - 1 = 208089$

Hence, predecessor of 208090 is 208089.

(d) Predecessor of 7654321 is $7654321 - 1 = 7654320$

Hence, predecessor of 7654321 is 7654320.

Q7. 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

Sol. We know that the smaller number is always on the left side of the greater number on number line.

(a) 530, 503

Clearly 503 is smaller than 530.

Hence, 503 will be on left side of 530 on number line.

Expression: $503 < 530$ or $530 > 503$

(b) 307 < 370

Clearly 307 is smaller than 370.

Hence, 307 will be on the left side of 370 on number line.

Expression: $307 < 370$ or $370 > 307$.

(c) 98765, 56789

Clearly 56789 is smaller than 98765.

Hence, 56789 will be on left side of 98765 on number line.

Expression: $56789 < 98765$ or $98765 > 56789$.

(d) 9830415, 10023001

Clearly, 9830415 is smaller than 10023001

Hence, 9830415 will be on the left side of 10023001 on the number line.

Expression: $9830415 < 10023001$ or $10023001 > 9830415$.

Q8. Which of the following statements are true (T) and which are false (F)?

(a) Zero is the smallest natural number.

(b) 400 is the predecessor of 399.

(c) Zero is the smallest whole number.

(d) 600 is the successor of 599.

(e) All-natural numbers are whole numbers.

- (f) All whole numbers are natural numbers.
- (g) The predecessor of a two-digit number is never a single-digit number.
- (h) 1 is the smallest whole number.
- (i) The natural number 1 has no predecessor.
- (j) The whole number 1 has no predecessor.
- (k) The whole number 13 lies between 11 and 12.
- (l) The whole number 0 has no predecessor.
- (m) The successor of a two-digit number is always a two-digit number.

- Sol.**
- (a) This statement is false (F)
 - (b) This statement is false (F)
 - (c) This statement is true (T)
 - (d) This statement is true (T)
 - (e) This statement is true (T)
 - (f) This statement is false (F)
 - (g) This statement is false (F)
 - (h) This statement is false (F)
 - (i) This statement is true (T)
 - (j) This statement is false (F)
 - (k) This statement is false (F)
 - (l) This statement is true (T)
 - (m) This statement is false (F).