Chapter 2: Whole Numbers, Class 3



CLASS NOTES-ANSWERS

EXERCISE 2.1

- 1. Write the next three natural numbers after 10999.
- Answer: 11000, 11001 and 11002 are the next three natural numbers after 10999.
- 2. Write the three whole numbers occurring just before 10001.

Answer: 10000, 9999 and 9998.

3. Which is the smallest whole number?

Answer: 0 (zero)

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

Answer: To calculate numbers between 53 and 32 we will use the formula

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(N2 - N1) - 1.

Applying this formula, we get (53 - 32) - 1 = 20

Thus, between 32 and 53 there are 20 whole numbers.

5. Write the successor of :

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

Answer: The successor of the number is always 1 more than the given number that is n + 1. So, the successors of given are:

- (a) 2440701 + 1 = 2440702
- (b) 100199 + 1 = 100200
- (c) 1099999 + 1 = 1100000



Chapter 2: Whole Numbers, Class 3

(d) 2345670 + 1 = 2345671

6. Write the predecessor of :

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

Answer: The predecessors of number is always 1 less than the given number that is n - 1. So, the predecessors of given 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.

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

(a) Since, 530 > 503

The number 503 is on the left side of 530 on the number line

(b) Since, 370 > 307

The number 307 is on the left side of 370 on the number line

(c) Since, 98765 > 56789

The number 56789 is on the left side of 98765 on the number line



Chapter 2: Whole Numbers, Class 3

(d) Since, 9830415 < 10023001

The number 9830415 is on the left side of 10023001 on the number line

- 8. 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.

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- (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.
- (I) The whole number 0 has no predecessor.
- (m) The successor of a two digit number is always a two digit number.

Answer:

- (a) False [N = {1, 2, 3, ...}, 0 is not a natural number]
- (b) False [The predecessor of 399 is 398. (399 1 = 398)]
- (c) True [W = $\{0, 1, 2, 3, ...\}$, the whole numbers begin with 0.]
- (d) True [599 + 1 = 600]

Chapter 2: Whole Numbers, Class 3



(e) True N = {1, 2, 3, ...} W = {0, 1, 2, 3, ...}

As we see that every element of natural numbers set (N) belongs to the

set of whole numbers (W) thus, N belongs to W.

(f) False N = $\{1, 2, 3, ...\}$ and W = $\{0, 1, 2, 3, ...\}$

0 is a whole number but is not a natural number.

- (g) False [The predecessor of 10 is 9 which is a single-digit number]
- (h) False [0 is the smallest whole number.]
- (i) True [The predecessor of 1 is 0 but is not a natural number]
- (j) False [0 is the predecessor of 1 and is a whole number]
- (k) False [13 lies between 12 and 14. No whole number lies between 11 and 12 as they are consecutive numbers]
- (I) True [The predecessor of 0 is -1 and is not a whole number. -1 is an integer.]
- (m) False [The successor of 99 is 100 which is a 3-digit number]