



Whole Numbers Ex 3.1 Q13

Answer :

Largest six-digit number = 999,999

Smallest seven-digit number = 1,000,000

Thus, the smallest seven-digit number is larger than the largest six-digit number.

Again,

Difference between these two numbers = $1,000,000 - 999,999 = 1$

Hence, the smallest seven-digit number is larger than the largest six-digit number by 1.

Whole Numbers Ex 3.1 Q14

Answer :

We have:

First number = $8,510,001 - 1 = 8,510,000$

Second number = $8,510,000 - 1 = 8,509,999$

Third number = $8,509,999 - 1 = 8,509,998$

Hence, the three consecutive whole numbers just preceding 8,510,001 are 8,510,000, 8,509,999 and 8,509,998.

Whole Numbers Ex 3.1 Q15

Answer :

We have:

First number = $4,009,998 + 1 = 4,009,999$

Second number = $4,009,999 + 1 = 4,010,000$

Third number = $4,010,000 + 1 = 4,010,001$

Hence, the next three consecutive whole numbers starting from 4,009,998 will be 4,009,999, 4,010,000 and 4,010,001.

Whole Numbers Ex 3.1 Q16

Answer :

We know that every natural number has a successor. Therefore, the largest natural number does not exist.

Whole Numbers Ex 3.1 Q17

Answer :

(i) True

The successor of every whole number can be found by adding 1.

(ii) False

Zero (0) is a whole number whose predecessor (-1) is not a whole number.

(iii) False

1 is the smallest natural number.

(iv) False

Zero (0) is the smallest whole number.

(v) True

The smallest natural number is 1, so zero (0) is less than every natural number.

(vi) False

There is no whole number between two consecutive whole numbers.

(vii) True

(viii) True

The smallest five-digit number = 10,000

The largest four-digit number = 9,999

Difference = $10,000 - 9,999 = 1$

Because the difference is 1, 10,000 is the successor of 9,999.

(ix) True

(x) False

10 is a two-digit number whose predecessor is 9, which is a one-digit number.

(xi) False

If a and b are consecutive natural numbers, then there cannot be any natural number c in between a and b .

(xii) True

(xiii) True

(xiv) True

The predecessor of natural number 1 is 0, which is not a natural number.

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