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

(a) Zero is the smallest natural number.

Solution:

False

0 is not a natural number

(b) 400 is the predecessor of 399.

Solution:

False

The predecessor of 399 is 398 Since, (399 – 1 = 398)

(c) Zero is the smallest whole number.

Solution:

True

Zero is the smallest whole number

(d) 600 is the successor of 599.

Solution:

True

Since (599 + 1 = 600)

(e) All natural numbers are whole numbers.

Solution:

True

All natural numbers are whole numbers

(f) All whole numbers are natural numbers.

Solution:

False

0 is a whole number but is not a natural number

(g) The predecessor of a two digit number is never a single digit number.

Solution:

False

Example the predecessor of 10 is 9

(h) 1 is the smallest whole number.

Solution:

False

0 is the smallest whole number

(i) The natural number 1 has no predecessor.

True

The predecessor of 1 is 0 but is not a natural number

(j) The whole number 1 has no predecessor.

Solution:

False

0 is the predecessor of 1 and is a whole number

(k) The whole number 13 lies between 11 and 12.

Solution:

False

13 does not lie between 11 and 12

(l) The whole number 0 has no predecessor.

Solution:

True

The predecessor of 0 is -1 and is not a whole number

(m) The successor of a two digit number is always a two digit number.

Solution:

False

As the successor of 99 is 100