Grade 6 Whole Numbers

Q1) State true or false with reason.

i)Zero is the smallest natural number.

ii)All-natural numbers are the whole numbers.

iii)All whole numbers are natural numbers.

iv)The predecessor of a two-digit number is never a single digit number.

v)The successor of a two-digit number is always a two-digit number.

Q2) Write the predecessor and successor of the following numbers:

i)12000 ii)10109

Q3) Write smallest and greatest 5-digit whole number using digits 3,7,5 and 0. Find difference between the numbers so obtained.

Q4) Solve using properties and name the property used.

i) 436+678+564 ii) 125 x 419 x 8

ii) 78235 x 92+8 x 78235 iv) 268 x 1001

Q5) i) The predecessor of which whole number is successor of 25?

ii) The predecessor of successor of 967348 is_____.

Q6) Solve

6 + [27 ÷ {12-(7+2)}]

Q7) The number of students in each class of a school is 40. The fees paid by each student is Rs 5183 per month. If there are 25 classes in the school, what is the total fee collection in a month?

Q8) Is the product of a non-zero whole number and its predecessor always an even number? Is it true for its successor? Give reason with examples.

Answer Key

Ans 1) i) False ii) True iii) False, 0 is not a natural number

iv) False, Predecessor of 10 is 9 v) False, Successor of 99 is 100

Ans 2) i) Predecessor (12000) =11999, successor (12000) =12001

ii) Predecessor (10109) =10108, successor (10109) =10110

Ans 3) Smallest= 30057, Greatest=77530 Difference= 47473

Ans 4) i)436+678+564 = 678+436+564 = 678+1000=1678

ii)125 x 419 x 8 =419 x125x8=419x1,000=4,19,000

iii)78235 x 92+8 x 78235 = 78235 x (92+8) =78,23,500

iv)268 x 1001 =268(1000+1) =268000 + 268=268268

Ans 5) i) 27, Successor of 25=26, Predecessor of 27 is 26

ii) 967348, Successor of 967348=967349, Predecessor of 967349=967348

Ans 6) 15

6 + [27 ÷ {12-(7+2)}] =6 + [27 ÷ {12-9}] =6 + [27 ÷ 3] =6+9=15

Ans 7) 51,83,000 {5183x40x25=5183x1000=51,83,000}

Ans 8) False for predecessor 1X0=0

True for successor [{1X2=2}, {2x3=6}]