Teacher Name: Ambreen Badar Class:8 Subject: Mathematics Date: 1st September 2018

Topic: Set Language And Notation

**Q2. If,= { 1, 2, 3, 4,………..15}**

A = {3, 5, 7, 9}  
  
B = {2, 4, 6, 8, 10}   
  
C = {12, 14, 18, 20, 24}   
  
D = {21, 26, 31, 36}

**(a) State whether true or false.**

(i) 13 ∈ C \_\_\_\_\_\_\_\_\_\_\_\_  
  
(ii) 6 ∉ A \_\_\_\_\_\_\_\_\_\_\_\_   
  
(iii) 9 ∉ A \_\_\_\_\_\_\_\_\_\_\_\_  
  
(iv) 24 ∈ C\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
(v) 31 ∈ D \_\_\_\_\_\_\_\_\_\_\_\_\_  
  
(vi) 36 ∉ D\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
  
(vii) 20 ∉ C \_\_\_\_\_\_\_\_\_\_\_\_\_  
  
(viii) 9 ∈ A \_\_\_\_\_\_\_\_\_\_\_\_\_

**(b) Find:**

(i) A’

(ii) B’

(iii) A B

(iv) C D

**Q2. Write the number elements for each of the following.**

(a) X = The set of months in a year   
  
(b) Y = The set of letters in the word INTELLIGENT  
  
(c) Z = The set of prime numbers from 2 to 11  
  
(d) Q = {x : x is a quadrilateral having 5 sides}   
  
(e) V = {x : x is a 2-digit number such that the sum of digits is 6}   
  
(f) W = The set of hours in a day