**The City School**

North Nazimabad Boys Branch

**Grade 9 Mathematics**

**Date: 27-08-2016 Topic: Inverse Proportion**

**Mr. Mohsin Zaki**

Q1: Given that R is inversely proportional to S and that R =140 when S =5, find the constant of proportion and calculate the value of S when R =200

Q2: If y is inversely proportional to x, and if y = 4 when x = 3

1. find an equation giving y in terms of x.
2. Find y when x = 6.

Q3: If z is inversely proportional to square root of x, and if z=6 when x=9

1. Express z in terms of x
2. Find z when x=25

Q4: If N is inversely proportional to r2 and that N = 3 when r = 5. Find the value of N when r =10.

Q5: Given that P is inversely proportional to Q and if P= 9 when Q = 2 find P when Q =3