Teacher Name:AmbreenBadar Class:9 Subject: Mathematics Date: 1st September 2018

Topic: Direct And Inverse Variation

Q1: Suppose x and y are inversely proportional. If x = 24 and y = 18, then what is x when y = 90?

Q2: Suppose that y is inversely proportional to x and that y = 8 when x = 3. Calculate the value of y when x = 10.

Q3: If y is directly proportional to x and given y = 9 when x = 5, find:  
a) the value of y when x = 15  
b) the value of x when y = 6

Q4: Suppose that y is inversely proportional to x and that y = 8 when x = 3. Calculate the value of y when x = 10.

Q5: v is directly proportional to square of t. Given that v = 200 and t = 10.

1. Find the value of v when t = 30.
2. Find the value of t when v = 5000.

Q6: y is inversely proportional to x. Given that y = 12 when x = 6, find the value of

y when x = 8.

Q7: h is inversely proportional to k. Given that h = 24 when k = 2, find the value of

h when k = 8.

Q8: y is inversely proportional to the square of x. Given that y = 3 when x = 4, find the value of y when x = 12.