The City School

North Nazimabad Boys Campus

E-Worksheet

Teacher Name: Ambreen Badar Class: 8 Subject: Mathematics

Date: 27th October 2016

Topic: Simultaneous Linear Equations

Q1: Solve the simultaneous linear equations by elimination method.

a) $\frac{x+y}{3} = 3$

$\frac{3x+y}{5} = 1$

b) 2h – j = 3

3h + 2j = 8

c) 2x + y = 9

3x – y = 16

d) 3x – 4y = 2

2x + 5y = 9

Q2: Solve the simultaneous linear equations by substitution method.

a) 4x + 3y = 3

2x – 6y =9

b) n + p = 9

4n – p = 1

c) 2x – 3y = -2

4x + y = 24

d) $\frac{1}{2}x - \frac{1}{3}y - 1 = 0$

x + 6y + 8 = 0

Q3: A housewife finds that 5 cans of milk and 3 jars of instant coffee cost $41 while 7 cans of milk and 6 jars of instant coffee cost $83. Find the total cost for 4 cans of milk and 2 jars of instant coffee.

Q4: 8 kg of flour and 7 kg of rice costs $121 while 9 kg of flour and 11 kg of rice costs $158. Find the costs of 1 kg of flour and rice respectively.

Q5: Six kg of beef and four kg chickens costs $ 120, while four kg of beef and eight kg of chickens costs $ 120. Find the costs of 1kg of beef and a chicken.

Q6: Find a fraction which reduces to $\frac{3}{4}$ when the numerator and denominator are each decreased by 1, and which reduces to $\frac{4}{5}$ when numerator and denominator are each increased by 1