Teacher Name: Ayesha Maqsood Class: 9 Subject: Mathematics Date: 19th March’ 2018

**Topic: “Coordinate Geometry”**

**Sub Topic: ‘Equation Of A Line’**

 Q1. A line has equation 3x + y = 15

1. Find the gradient of the line.
2. Find the coordinates of point where the line crosses the y-axis.

Q2. A line has equation 6x + 2y + 9 = 0

1. Find the gradient of the line.
2. Find the point where the line crosses the x-axis.

Q3. The line L passes through the points (0, 7) and (3, 19). Work out the equation of the line L.

Q4. The point A (−3, 5) and the point B (1, −15) lie on the line. Find the equation of the line.

Q5. A line has a gradient of 8 and passes through the point (2, 3). Find the equation of the line.

Q6. The equation of the line is y = 8x + 2.

1. Write down the gradient of the straight line.
2. The line cuts the y-axis at the point A. Write down the coordinates of the point A.
3. The line cuts the x-axis at the point B. Write down the coordinates of the point B.

Q7. A line has a gradient of −⅘ and passes through the point (30, 24). Find the equation of the line.

Q8. A line has a gradient of −½ and passes through the point (−6, −8). Find the equation of the line.

Q9. Find the equation of the line that has a slope of 5 and passes through the point (-9,6).

Q10. Find the equation of the line that has a slope of 5 and a y-intercept of 8.