**Scattergraphs**

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /4 | % |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1)** Construct a scatterplot for the data about Maths and English test scores for a group of students given below.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/110130808350_1.png |   |  |

|  |  |
| --- | --- |
| **Maths** | **English** |
| 7 | 7 |
| 3 | 1 |
| 5 | 2 |
| 2 | 5 |
| 6 | 3 |

 |

 | [1]   |
| **2)** Construct a scatterplot **and** draw a line of best fit for the quiz scores for 8 students in a class.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/110130808350_2.png |   |  |

|  |  |
| --- | --- |
| **1st quiz** | **2nd Quiz** |
| 14 | 16 |
| 28 | 22 |
| 34 | 33 |
| 36 | 35 |
| 43 | 38 |
| 45 | 39 |
| 46 | 43 |
| 49 | 43 |

 |

      | [1]   |
| **3)** Plot the mean point ( $\overline{x}$, $\overline{y}$) and draw a line of best fit for the quiz scores for 8 students in a class.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| http://www.mathster.com/course/simgs/110130808350_3.png |   |  |

|  |  |
| --- | --- |
| **1st quiz** | **2nd Quiz** |
| 10 | 5 |
| 11 | 6 |
| 13 | 12 |
| 15 | 13 |
| 22 | 18 |
| 29 | 22 |
| 48 | 46 |
| 50 | 49 |

 |

      | [1]   |
| **4)** Here is a scatter plot for a set of bivariate data.http://www.mathster.com/course/simgs/110130808350_4.pngDescribe the correlation shown in the scatterplot using 3 words from the list below.     weak     strong     positive     negative     correlation      | [1]   |

**Solutions for the assessment Scattergraphs**

|  |
| --- |
| **1)** http://www.mathster.com/course/simgs/110130808350_5.png |
| **2)** http://www.mathster.com/course/simgs/110130808350_6.png |
| **3)** http://www.mathster.com/course/simgs/110130808350_7.png |
| **4)** strong negative correlation |  |