**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/143904256636_1.png |   |  |

|  |  |
| --- | --- |
| **Maths** | **English** |
| 8 | 3 |
| 6 | 2 |
| 7 | 7 |
| 1 | 1 |
| 3 | 6 |

 |

 | [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/143904256636_2.png |   |  |

|  |  |
| --- | --- |
| **1st quiz** | **2nd Quiz** |
| 10 | 8 |
| 12 | 9 |
| 13 | 10 |
| 16 | 12 |
| 19 | 13 |
| 22 | 22 |
| 27 | 29 |
| 50 | 45 |

 |

      | [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/143904256636_3.png |   |  |

|  |  |
| --- | --- |
| **1st quiz** | **2nd Quiz** |
| 12 | 9 |
| 16 | 10 |
| 19 | 18 |
| 33 | 26 |
| 34 | 29 |
| 35 | 35 |
| 39 | 39 |
| 49 | 39 |

 |

      | [1]   |
| **4)** Here is a scatter plot for a set of bivariate data.http://www.mathster.com/course/simgs/143904256636_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/143904256636_5.png |
| **2)** http://www.mathster.com/course/simgs/143904256636_6.png |
| **3)** http://www.mathster.com/course/simgs/143904256636_7.png |
| **4)** strong negative correlation |  |