**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/113067629829_1.png |   |  |

|  |  |
| --- | --- |
| **Maths** | **English** |
| 3 | 6 |
| 1 | 4 |
| 8 | 5 |
| 2 | 3 |
| 7 | 8 |

 |

 | [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/113067629829_2.png |   |  |

|  |  |
| --- | --- |
| **1st quiz** | **2nd Quiz** |
| 29 | 21 |
| 31 | 29 |
| 36 | 30 |
| 37 | 36 |
| 39 | 39 |
| 40 | 40 |
| 41 | 40 |
| 42 | 42 |

 |

      | [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/113067629829_3.png |   |  |

|  |  |
| --- | --- |
| **1st quiz** | **2nd Quiz** |
| 10 | 12 |
| 24 | 20 |
| 32 | 26 |
| 34 | 30 |
| 35 | 33 |
| 37 | 35 |
| 40 | 37 |
| 45 | 40 |

 |

      | [1]   |
| **4)** Here is a scatter plot for a set of bivariate data.http://www.mathster.com/course/simgs/113067629829_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/113067629829_5.png |
| **2)** http://www.mathster.com/course/simgs/113067629829_6.png |
| **3)** http://www.mathster.com/course/simgs/113067629829_7.png |
| **4)** strong negative correlation |  |