**Stem and Leaf Diagram**

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

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| **1)** Complete the stem and leaf diagram using the following data.

|  |  |  |
| --- | --- | --- |
|   |   | Key: 1 | 1 = 11 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 34 | 40 | 16 | 49 | 45 | 39 |
| 11 | 13 | 41 | 40 | 35 | 33 |
| 27 | 33 | 29 | 22 | 41 | 20 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 |   |

|  |  |
| --- | --- |
| 1 | 1 3 6  |
| 2 | 0 2 7 9  |
| 3 |  |
| 4 | 0 0 1 1 5 9  |

 |

      | [1]   |
| **2)** Complete the stem and leaf diagram **and** the key using the following data

|  |  |  |
| --- | --- | --- |
|   |   | Key: 2 | 1 =  |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 26 | 45 | 47 | 46 | 47 | 55 |
| 59 | 57 | 38 | 55 | 59 | 45 |
| 56 | 49 | 21 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 |   |

|  |  |
| --- | --- |
| 2 | 1 6  |
| 3 | 8  |
| 4 |  |
| 5 | 5 5 6 7 9 9  |

 |

      | [1]   |
| **3)** Complete the stem and leaf diagram using the following data

|  |  |  |
| --- | --- | --- |
|   |   | Key: 5 | 1 = 51 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 63 | 78 | 62 | 87 | 76 | 51 |
| 82 | 77 | 51 | 51 | 53 | 55 |
| 69 | 74 | 73 | 76 | 64 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 |   |

|  |  |
| --- | --- |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |

 |

      | [1]   |
| **4)** Complete the stem and leaf diagram **and** the key using the following data

|  |  |  |
| --- | --- | --- |
|   |   | Key: 1 | 1 =  |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 37 | 24 | 34 | 49 | 25 | 29 |
| 43 | 33 | 44 | 11 | 41 | 14 |
| 46 | 39 | 12 | 38 | 44 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 |   |

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

 |

      | [1]   |
| **5)** The stem and leaf diagram below shows the number of goals scored by each player in a football team over the last 5 years.                Key: 1 | 1 = 11

|  |  |
| --- | --- |
| 1 | 1 4 4 6  |
| 2 | 0 0 2 6 7 9  |
| 3 | 3 3 3 7 8  |
| 4 | 1 6  |

What was the range of the number of goals scored?      | [1]   |
| **6)** The stem and leaf diagram below shows the age, in years, of members of a golf club.                Key: 1 | 3 = 13

|  |  |
| --- | --- |
| 1 | 3 3 3 9  |
| 2 | 0 6  |
| 3 | 2 5 5 6 9  |
| 4 | 8  |

What was the median age?      | [1]   |
| **7)** The stem and leaf diagram below shows the age, in years, of members of a swimming club.                Key: 1 | 0 = 10

|  |  |
| --- | --- |
| 1 | 0 0 4 7  |
| 2 | 1 2 3 4 6 7  |
| 3 | 1 6  |
| 4 | 0 0 4 6 6  |

What was the mean age, to the nearest whole year?      | [1]   |
| **8)** The stem and leaf diagram below shows the ages, in years, of males and females at a tennis club.Key: 0 | 1 | 0 = 10 years for males and 10 years for females

|  |  |  |
| --- | --- | --- |
| Males |   | Females |
| 8 8 5 1 0 | 1 | 0 3 6  |
| 8 | 2 | 0 3 4 8 9  |
| 8 7 4 1 | 3 | 0 2 8 9 9 9  |
| 8 8 5 | 4 | 3 9  |

a) What was the range of the ages for males? b) What was the range of the ages for females?      | [1]   |
| **9)** The stem and leaf diagram below shows the ages, in years, of males and females at a badminton club.Key: 3 | 1 | 2 = 13 years for males and 12 years for females

|  |  |  |
| --- | --- | --- |
| Males |   | Females |
| 7 4 3 | 1 | 2 7  |
| 7 6 6 2 | 2 | 0 2 6 8  |
| 8 7 4 2 0 | 3 | 6  |
| 4 4 | 4 | 1 2 6 7 8  |

a) What was the median age for males? b) What was the median age for females?      | [1]   |
| **10)** The stem and leaf diagram below shows the ages, in years, of males and females at a tennis club.Key: 1 | 2 | 0 = 21 years for males and 20 years for females

|  |  |  |
| --- | --- | --- |
| Males |   | Females |
| 1 | 2 | 0  |
| 9 4 3 2 0 0 | 3 | 0 0 3 6 6  |
| 6 2 | 4 | 2 5 6 8  |
| 7 2 1 | 5 | 9 9  |

a) What was the mean age (to the nearest year) for males? b) What was the mean age (to the nearest year) for females?      | [1]   |

**Solutions for the assessment Stem and Leaf Diagram**

|  |  |
| --- | --- |
| **1)** 3 3 4 5 9  | **2)** Key: 2 | 1 = 215 5 6 7 7 9  |
| **3)** 1 1 1 3 5 2 3 4 9 3 4 6 6 7 8 2 7  | **4)** Key: 1 | 1 = 111 2 4 4 5 9 3 4 7 8 9 1 3 4 4 6 9  |
| **5)** 35 | **6)** 29 |
| **7)** 28 | **8)** a) 38 years, b) 39 years |
| **9)** a) 28.5 years, b) 32 years | **10)** a) 39 years, b) 40 years |