**Stem and Leaf Diagram**

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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**

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| **1)** 3 3 4 5 9 | **2)** Key: 2 | 1 = 21 5 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 = 11 1 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 |