**Data Representations (KEY)**

**Bar Graph**

*Data: Representation:*

The table shows the favorite

cities of several adults.

|  |  |
| --- | --- |
| **Favorite City** | **Number of Adults** |
| Houston | 26 |
| Phoenix | 18 |
| New York City | 35 |
| Portland | 19 |
| Chicago | 21 |
| Miami | 32 |

**Double-Bar Graph**

*Data: Representation:*

The table shows the favorite cities

of adults and children.

|  |  |  |
| --- | --- | --- |
| **Favorite City** | **Number of Adults** | **Number of Children** |
| Houston | 26 | 17 |
| Phoenix | 18 | 24 |
| New York City | 35 | 51 |
| Portland | 19 | 12 |
| Chicago | 21 | 28 |
| Miami | 32 | 19 |

**Line Graph**

*Data: Representation:*

The table shows the profit

made during the months of

May to October.

|  |  |
| --- | --- |
| **Month** | **Dollars** |
| May | 1,200 |
| June | 1,550 |
| July | 1,800 |
| August | 2,000 |
| September | 850 |
| October | 690 |

**Double-Line Graph**

*Data:*

The table shows the amount of rainfall (in inches) for Phoenix and Flagstaff during the months of May to September.

|  |  |  |
| --- | --- | --- |
| **Month** | **Phoenix** | **Flagstaff** |
| May | 0.16 | 0.8 |
| June | 0.09 | 0.43 |
| July | 0.99 | 2.4 |
| August | 0.94 | 2.89 |
| September | 0.75 | 2.12 |

*Representation:*

**Circle Graph**

*Data: Representation:*

The table shows the results of

a survey that asked adults how

many times a week they exercise.

|  |  |
| --- | --- |
| **Response** | **Percentage** |
| Never | 18.00% |
| 1 to 3 Times | 49.00% |
| More than 3 Times | 33.00% |

**Histogram**

*Data:*

The table shows the time (in minutes) students spent texting per week. The bins refer to the intervals.

|  |  |
| --- | --- |
| **Time** | **Bins** |
| 28 | 30 |
| 16 | 60 |
| 32 | 90 |
| 18 | 120 |
| 94 | 150 |
| 21 |  |
| 72 |  |
| 119 |  |
| 11 |  |
| 84 |  |
| 89 |  |
| 44 |  |
| 48 |  |
| 92 |  |
| 15 |  |
| 31 |  |
| 29 |  |
| 96 |  |
| 114 |  |
| 66 |  |
| 122 |  |

 *Representation:*

**Data Representations Use Chart**

|  |  |  |
| --- | --- | --- |
| **Representation** | **Illustration** | **Use to…** |
| **Bar Graph** |  | * compare various categories, items, or ideas.
* see relationships of facts quickly.
 |
| **Double Bar Graph** |  | * compare two groups of various categories, items, or ideas.
* see relationships of facts quickly.
 |
| **Line Graph** |  | * show change over time.
* see overall trends, such as an increase or decrease over time.
 |
| **Double Line Graph** |  | * show change of two groups over time.
* see overall trends, such as an increase or decrease over time.
 |
| **Circle Graph** |  | * show parts or percentages of a whole.
 |
| **Histogram** |  | * show frequency of data and compare items or ideas.
 |