“75% Caffeine Solution”

## **Week #1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tray with a plant** | **Amount of radish plants in a tray** | **Amount of large leaves** | **Amount of medium leaves** | **Amount of small leaves** |
| #1 | 1 | no | No | 7 |
| #2 | 1  1  1 | 3  4  no | 1  no  2 | no  no  2 newborn |
| #3 | 1  1  1 | 2  no  1 | no  2  2 | 1 newborn  2 newborn  1 newborn |
| #4 | 1  1 | 2  no | no  2 | no  2 newborn |
| #5 | 1  1  1 | 4  2  no | no  no  2 | no  2  2 newborn |
| #6 | 1  1 | 2  2 | no  2 | 1newborn  no |
| #7 | 1  1  1 | no  no  no | 4  4  4 | No  No  no |
| #8 | 1  1  1  1 | 1  1  2  no | 1  1  no  2 | No  no  1 newborn  1 newborn |
| #9 | 1  1 | 4  2 | no  no | no  no |
| #10 | 1  1  1 | 2  3  no | No  No  2 | 2 newborn  1 newborn  2 newborn |

The table above shows **how** the data is being collected. Further on the tables will be showing only the average of this data, because in this way it is much easier to see the difference in plant conditions variations from week to week.

The leaves have green color and the stems have a pale green color. The table below shows the average width and length of the leaves:

|  |  |  |
| --- | --- | --- |
| **Sizes of the Leaves** | **Average Length** | **Average Width** |
| Large Leaves | 1.86 cm | 2 cm |
| Medium Leaves | 1.43 cm | 1.15 cm |
| Small Leaves | 1.2 cm | .85 cm |
| Newborn Leaves | .54 cm | .43 cm |

Totaling all the information above we can see that there is:

|  |  |
| --- | --- |
| **Size of the leaves** | **Amount of the leaves in the 75 % caffeine samples** |
| Large | 37 |
| Medium | 31 |
| Small | 9 |
| Newborn | 18 |

The information above shows us almost what we have observed in the previous samples. 31 leaves reached its medium size and 18 newborns showed up.

**The average height of plants is 4.1 cm.**

## **Week #2**

The results are shown below in the table:

|  |  |
| --- | --- |
| **Size of the leaves** | **Amount of the leaves in the 75 % caffeine samples** |
| Large | 36 |
| Medium | 35 |
| Small | 23 |
| Newborn | 9 |

All the newborns grew to the small size, but some newborns are still showing up, not in a large amounts though in compare with the total number of leaves.

Below you will see the table with average length of the leaves:

|  |  |  |
| --- | --- | --- |
| **Sizes of the Leaves** | **Average Length** | **Average Width** |
| Large Leaves | 2.77 cm | 1.7 cm |
| Medium Leaves | 1.73 cm | 2.03 cm |
| Small Leaves | 1.46 cm | 1.66 cm |
| Newborn Leaves | 1.15 cm | .9 cm |

**The average height of plants is 6.93 cm.**

**Week #3**

The results are below in the tables:

|  |  |
| --- | --- |
| **Size of the leaves** | **Amount of the leaves in the 75 % caffeine samples** |
| Large | 35 |
| Medium | 56 |
| Small | 52 |
| Newborn | 17 |

|  |  |  |
| --- | --- | --- |
| **Sizes of the Leaves** | **Average Length** | **Average Width** |
| Large Leaves | 4.35 cm | 3.25 cm |
| Medium Leaves | 3.58 cm | 2.63 cm |
| Small Leaves | 2.35 cm | 1.83 cm |
| Newborn Leaves | 1.1 cm | .6 cm |

**Average length of leaves is 9.43 cm.**

**Week #4**

|  |  |
| --- | --- |
| **Size of the leaves** | **Amount of the leaves in the 75 % caffeine samples** |
| Large | 33 |
| Medium | 46 |
| Small | 27 |
| Newborn | 23 |

|  |  |  |
| --- | --- | --- |
| **Sizes of the Leaves** | **Average Length** | **Average Width** |
| Large Leaves | 4.40 cm | 3.55 cm |
| Medium Leaves | 3.65 cm | 2.50 cm |
| Small Leaves | 3.05 cm | 2.10 cm |
| Newborn Leaves | 1.35 cm | 1.13 cm |

**The average height of the plants is 9.63 cm.**

**Week #5**

|  |  |
| --- | --- |
| **Size of the leaves** | **Amount of the leaves in the 75 % caffeine samples** |
| Large | 36 |
| Medium | 38 |
| Small | 23 |
| Newborn | 27 |

|  |  |  |
| --- | --- | --- |
| **Sizes of the Leaves** | **Average Length** | **Average Width** |
| Large Leaves | 5.30 cm | 4.58 cm |
| Medium Leaves | 4.08 cm | 3.33 cm |
| Small Leaves | 2.93 cm | 2.15 cm |
| Newborn Leaves | 1.57 cm | 1.10 cm |

**The average height of plants is 11.5 cm.**

The temperature and humidity are measured at the beginning of each week:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weeks of watering with caffeine:** | **Minimum temperature of the Week** | **Maximum temperature of the Week** | **Humidity when the temperature was minimum** | **Humidity when the temperature was maximum** |
| #1 | 1ْC | 51ْC | 53% | 55% |
| #2 | 1ْC | 51ْC | 43% | 43% |
| #3 | 1ْC | 51ْC | 54 % | 56% |
| #4 | 1ْC | 51ْC | 44% | 44% |
| #5 | 1ْC | 51ْC | 73% | 74% |