Paper towels Experiment Lab Report:

Partner: Wira

Introduction:

1. Investigation: The group will supply 3 kinds of paper towels.
2. Objective: Which kind of paper towel absorbs the most water?
3. Hypothesis: We think that “Nice” paper towel will absorb the most water. “Nice” paper has the softest material. Nice paper towel has the softest material, so nice paper towel absorb the most water.
4. Variables:

* Independent: 3 trial for every paper towel
* Dependent: Measure the exact measurement of water
* Control: Size of the paper towel and measurement for the water.

Design:

Method:

1. Materials:

* 3 kind of paper towels
* Water (250 ml)
* Beaker (500 ml)
* Graduated cylinder
* Stopwatch

1. Method:

* Determine how to put to the towel in the beaker, how to get it out, measure the measurement of water, measure the water that we squeeze (Squeeze a paper towel full of water in case to find which paper towel absorb the most water)
* Prepare paper towel, Stopwatch, 3 beakers, 3 graduated cylinder, and 250 ml of water.
* Measure the weight of paper towel
* Fill the beaker with 250 ml each
* Put or push the paper towel that full with water until the entire paper towel wet for 10 seconds
* Take out the paper towel from the beaker.
* Squeeze the paper towel
* Count how much water that is squeezed by graduated cylinder.
* The higher amount of water when the paper towel is squeezed indicate that the paper towel absorb most water or the more weight of paper towel after the paper towel

Experiment indicate the paper towel absorb most water.

1. Result:

1st trial Amount of water Weight

(Paper towel squeezed) (After Experiment)

|  |  |  |
| --- | --- | --- |
| Paseo | 40 ml | 28 gr |
| Nice | 43 ml | 16 gr |
| Indomart | 47 ml | 15,5 gr |

2nd trial

|  |  |  |
| --- | --- | --- |
| Paseo | 42 ml | 16. 64 gr |
| Nice | 31 ml | 15. 42 gr |
| Indomart | 40 ml | 8. 44 gr |

3rd trial

|  |  |  |
| --- | --- | --- |
| Paseo | 52 ml | 16. 57 gr |
| Nice | 44 ml | 18,03 gr |
| Indomart | 56 gr | 18. 19 gr |

|  |  |  |
| --- | --- | --- |
| Paper Towel | Amount of Water (Paper Towel Squeezed) (Average) | Weight of Paper Towel (After Experiment) (average) |
| Paseo | 44.7 ml | 20.4 gr |
| Nice | 39.3 ml | 16.45 gr |
| Indomart | 47.7 ml | 14.04 gr |

Explanation:

My partner, Wira, and I were doing paper towel experiment. We had Nice, Paseo, and Indomart paper towel. We had an objective to find kind of paper towel that absorb the most water. We had 3 trial paper towel experiment to ensure kind of paper towel absorb the most water. We were predicting that “Paseo” paper towel would absorb the most water. But, how we could know kind of paper towel that absorb the most water? We could find out by:

After the paper towels were wet, we squeezed the paper towel. The most water that was came out from paper towel that was squeezed; indicate that the paper towel absorbs most water. Our prediction was wrong, “Indomart” paper towel is kind of paper towel that absorb most water cause the water that was came out from Indomart paper towel (squeezed) was 47.7 ml. The amount of water was bigger than others. So that was, “Indomart” paper towel absorb the most water. From this chart/graph, we could see that “Indomart” paper towel absorbs most water (47.7 ml)

Evaluation:

There could be some problems that may affect our data of experiment. We were taking 3 sheets from every “paper towel” to do the experiment. That data could be affected by; accidentally we maybe took 4 sheets or 2 sheets to do the experiment. The data also could be affect by, the measurement of water from 1st until 3rd trials were not the same. These things could affect the result of data.

1. Conclusion:

Conclusion:

From the data, we could make the conclusion. “Indomart” paper towel absorbs most water, why? Because from the table above, Indomart paper towel produce 47.7 ml after the paper towel squeezed. The higher price of the paper towel absorbs most water. Indomart paper towel’s price is the highest than other paper towel, so that is why; Indomart Paper Towel absorbs most water. Not only because of the price, Indomart paper towel has the best texture than others, so that is why; Indomart Paper Towel absorbs most water.

Evaluation:

We could do much improvement to paper towel experiment. For example, we could find a better quality of paper towel so the result of the data could be more accurate from trial to trial.

Extension:

1. Towel experiment (Finding towel that absorbs most water)
2. Tissue experiment (Finding tissue that absorbs most water)
3. Handkerchief experiment (Finding handkerchief that absorbs most water)