

INTERPRETATION OF A GRAPH PROBLEM: WHO WAS REPRESENTED BY EACH
POINT?

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Abstract

In this article I interpreted a graph on which different ages and different heights of seven people were illustrated by the points. I matched each point with the correct person. Then, I reversed the axes and again I observed what the graph would look like. In brief, I explained my reasoning for both situations.

Key Words: age and height graph, the axes, reverse

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WHO WAS REPRESENTED BY POINT

Introduction

The purpose of this article was to explain the relationship between the age and height of seven people. This relation had been shown in the graph. And, I expressed who was represented by each point in the graph. Moreover, I observed what the graph for this problem would look like with the axes reversed. I explained my reasoning for both situations in detail.

Who Was Represented by Each Point?

There was a height and age graph on which x-coordinate was represented by *height* and y-coordinate was represented by *age*. Besides, there were 7 people with different ages and different heights. Hence, in the graph those people were shown with respect to their ages and heights.

The names of these seven people were Alice as older woman, Brenda as teenage girl, Cathy as young girl, Dennis as older man, Errol as teenage boy, Freda as young woman and Gavin as infant. Hence, I knew their ages and made a prediction of who was represented by which point on the graph. However, although I did not know their height, I could make an inference about their height from the points on the graph.

On the graph, the youngest and the smallest person was represented by the point 7, hence this was Gavin. Next, Cathy was represented by the point 6 since she was the second youngest person. The people who were in the same age were Brenda and Errol. Though their ages were same, their heights were different. Therefore, these two people were represented by the points 4 and 5, respectively. That is, they were represented in the same row but in different columns. Similarly, the points 1 and 2 illustrated people who were Dennis and Alice, respectively. They were shown in the same row but different columns since they were in the same age but in different heights. Additionally, the person, Freda, was represented by the point 3 in the graph, since she was smaller than Dennis and Alice as well as she was older than Brenda and Errol.

WHO WAS REPRESENTED BY POINT

Therefore, I could observe that the people, who were same in height, were in the same column like Dennis and Brenda. However, they were in different rows because of the different ages of them.

Well, if the axes were reversed, then what would the graph for this problem look like? If so, the x-axis would represent the ages of the people and the y-axis would represent the heights of the people. In this manner, only the points of 1st, and 5th persons who were Dennis and Errol, respectively, changed in the graph. Thus, again, the youngest and the smallest person, Gavin was shown by the point 7. Similarly, the points 6, 4,3 and 2 remained same. Since Errol was longer and younger than Alice, the point 1 in the previous graph would be changed by the point 5. So, in the new graph I could observe that the 5th and 4th persons were shown in the same column since they were same in age, for example. Similarly, the 1st and 4th persons as well as the 5th and 2nd persons were represented in the same row.

Conclusion

The purpose of this article was to interpret a graph on which the different ages and different heights of seven distinct people were shown. I matched each point in the graph with the each person. Then, i reversed the axes and observed which points would remain same and which ones would differ.

"A Bilkent student does not lie, cheat, or steal or tolerate those who do. On my honor, as a Bilkent student, I have neither given nor received unauthorized aid on this academic work."

Tugba Ozcan
