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## Fred añed Carla



Two astronauts, Carla and Fred, land on a distant planet. Each astronaut makes several temperature readings. At first, their measurements agree, but not for long. Below are Carla's and Fred's data:


Help Carla and Fred figure out if there is a relationship between their measurements by graphing their data.

## PROCEDURE

1. On a separate sheet of graph paper, set up a graph using appropriate axes, intervals, and origin.

Plot Carla's data on the $X$-axis. Plot Fred's data on the $Y$-axis.
2. After plotting the points, draw the best straight line.
3. Determine the equation for the line by finding the slope and the $Y$-intercept.
4. Write the equation in the form $\boldsymbol{Y}=\boldsymbol{m} \boldsymbol{X}+\boldsymbol{b}$. Remember, Fred is $Y$ and Carla is $X$.

## CONCLUSIONS

1. What is the equation for the line? $\qquad$
2. What is a reasonable explanation for the fact that Carla and Fred obtained different results while measuring the same temperatures? $\qquad$
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