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1) What are the similarities and differences between Jaxon and Maxine's methods?

| Similarities | Differences |
| :--- | :--- |
|  |  |
|  |  |

2) Who do you think dilated the figure correctly? Explain.
3) Triangle $A B C$ has coordinates $A(-4,-4), B(-3,2)$ and $C(2,1)$. Dilate triangle $A B C$ by a scale factor of $1 / 2$ with a center of dilation at the origin. Draw and label the coordinates of your dilated figure on the graph below.

4) a) What do you notice about the angles and sides of the dilated figure compared to the original figure?

b) Do you think this is always the case when you dilate a figure? Explain your reasoning.


Jaxon's method didn't work because his transformation didn't even make a similar triangle.

When you dilate a figure, you have to multiply both the x and $y$ values by the same scale factor! This preserves the angle measures and makes the sides proportional.

