**Math Task 1: The Metropolitan Nashville Arts Commission is hosting a dinner at the McCabe Park Community Center. Your graphic arts design team has been assigned a project to create promotional materials for the dinner using pictures of *Aileron*, a public sculpture created by Michael Dillon.**

**Part 1: Create a poster that is proportional to the photograph of *Aileron*.**

You are given a photograph of *Aileron* that is 4 inches tall and 6 inches wide. Determine the height of the poster if the width is 12 inches. *Hint: Label each photograph*.

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Show your calculations:

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Explain how you solved the problem:

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**Part 2: Create a dinner program that includes a photograph of *Aileron*.**

You are given a photograph of *Aileron* that is 4 inches tall and 6 inches wide. Determine the height of the program picture if the photograph is 2 inches tall. *Hint: Label each photograph*.

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Show your calculations:

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Explain how you solved the problem:

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**Part 3: Determine the proportionality of the photographs.**

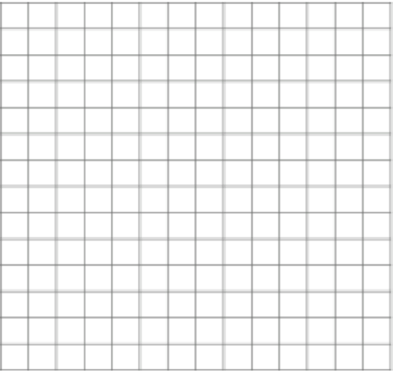
Create a table that includes the width and height of the three pictures used.

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| **Width** | **Height** |
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What observations can be made from the table?

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Graph the width and height of the photographs on the coordinate plane:



Are the photographs directly proportional? Explain your reasoning.

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**Part 4: The project manager asks you to create a postcard with a photograph of *Aileron* that is 3 inches tall and 4.5 inches wide. Determine if the photograph is directly proportional to the other photographs in your assignment.**

Explain your thinking. Use a table, graph, and/or equation as evidence to support your conclusions.

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