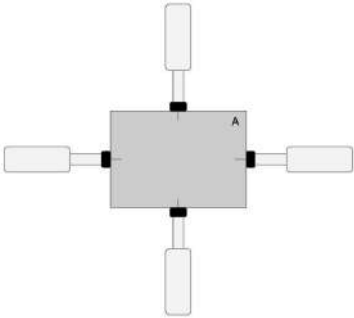
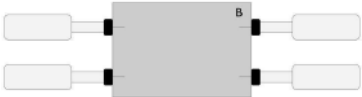


Date: \_\_\_\_\_

## Part 1: Data Collection / Observations

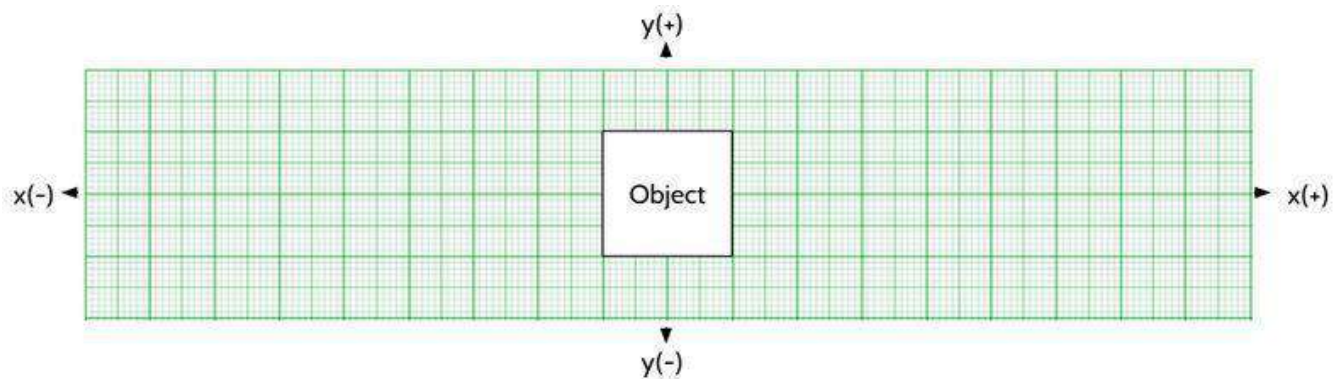
- | Investigation  | Results for each condition you tested |
|--|---------------------------------------|
| <p>A</p>    |                                       |
| <p>B</p>  |                                       |

1. How do the forces pushing on an object compare when it remains “stable”?

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### Part 3: Use a Model

Create a free-body diagram to represent a stationary object with 3 contact forces acting on it in the horizontal direction (along the  $x$ -axis).



László Németh

Then review the *GPS Plate Map*. Evaluate whether your free-body diagram is a reasonable model for explaining why the Caribbean plate (marked with a ★) might appear to be stable (not moving) relative to other plates. Why or why not?

