WHAT?!?

Crazy, right?
This is the Eshima Ohashi Bridge which spans Lake Nakaumi in Japan. It is approximately 1609.34 meters long and 44 meters at its highest point. It was built this way so that ships could pass beneath it.

Find the slope of the bridge. Remember, it reaches its highest point halfway across.

Using the 10 inch mark on a ruler, see if you can model this slope on your desk.

This is an actual photograph, but it was taken with a telephoto lens which flattens space making it appear much steeper. Even photos need to be viewed with a critical eye!

Image credit: littlethings.com

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Find the slope of the bridge. Remember, it reaches its highest point halfway across.

$$\frac{1609.34\ meters}{2} = 804.67\ meters$$

$$\frac{44\ meters}{804.67\ meters} = .05468$$

Using the 10 inch mark on a ruler, see if you can model this slope on your desk.

$$.05468 \times 10\ inches = .5\ inches$$

So for every 10 inch run, there would be a .5 inch rise. Not so bad!

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