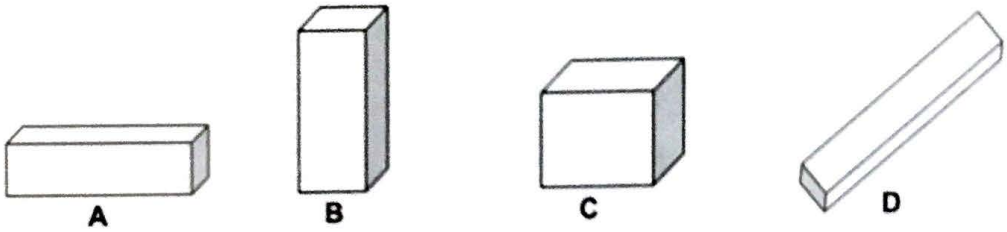
Name: _____

Which Prism Holds the Most?

1. The boxes shown below are examples of rectangular prisms. Note that they are *not* drawn to scale, so you must look at their dimensions in the chart. Circle the box that you think would hold the *most*. Explain your choice.



Rectangular Prism	Length (cm)	Width (cm)	Height (cm)
A	9	2	3
B	4	3	8
C	5	5	4
D	12	2	2

2. Rank of the prisms from *greatest to least* by estimated volume.

Greatest ⟶ ***Least***

Solid: _____ _____ _____ _____

3. How can you calculate the exact volume of each rectangular prism?

_____

4. Test your estimates by calculating the volume of each prism. Record your calculations in the chart, including the correct unit of measurement for volume, and rank the prisms from greatest to least by actual volume.

Rectangular Prism	Actual volume	Rank G to L by actual volume
A		
B		
C		
D		

5. Which of the actual volumes surprised you? Explain.

_____

_____

6. Which two prisms were closest in volume? _____