

4.3

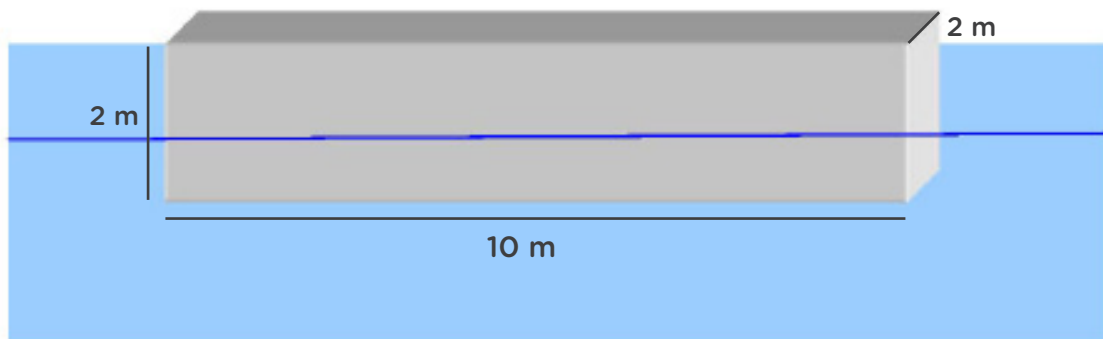
How do you calculate the volume of an iceberg?

Name: _____

Date: _____

The picture below represents a block of ice floating in water. The blue line represents the surface level of the water. The block is 10 m long, 2 m tall, and 2 m thick. What is the volume of the block of ice? Use what you have learned in the previous activity "Floating Ice Volume" to determine how much of the ice block would be floating above the water.

Is the diagram below an accurate representation of this ice block floating in the water? Why or why not?



4.3

How do you calculate the volume of an iceberg?

STUDENT'S NAME:

SCORING RUBRIC	No = 0	Attempted = 3	Yes = 5
Student accurately computes the volume of the ice block to be 40 cm ³ .			
Student suggests that only 10%, 4cm ³ , or 2mm of the block should be above the water line.			
Student correctly states that the diagram is not accurate too much of the ice block (more than 10%) is shown above the water line.			
Total Points /15			