



Fluids / Animation 4

Name _____ Class _____

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

- _____ 1) The density of the ice cube is:
- A) More than the density of the water in which it floats
 - B) Less than the density of the water in which it floats
 - C) The same as the density of the water in which it floats
- _____ 2) The mass of the water displaced by the ice cube (at any moment in the melting process) is:
- A) More than the mass of the ice cube
 - B) Less than the mass of the ice cube
 - C) The same as the mass of the ice cube
- _____ 3) Which animation(s) show the buoyancy force on the block changing as the oil is first drawn away?
- A) Animation A
 - B) Animation B
 - C) Animation C
 - D) Animation D
- _____ 4) As the ice cube melts, its mass:
- A) Increases
 - B) Decreases
 - C) Remains the Same
- _____ 5) When the ice cube melts it becomes water. The volume of this water (compared to the volume of the original ice cube) is:
- A) More
 - B) Less
 - C) The Same
- _____ 6) The animation that is “most physical” (i.e. best depicts what would happen to the water level in a real experiment is: (choose one)
- A) Animation 1
 - B) Animation 2
 - C) Animation 3