



Fluids / Animation 2

Name _____ Class _____

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

1) When the elevator is stationary, what is the net force on the block of wood?

2) When the elevator is stationary, what is the mass of water displaced by the block of wood?

_____ 3) As the elevator rises in each animation it is: (choose one)

A) speeding up B) slowing down C) moving at a constant speed

_____ 4) As the elevator rises, the net force on the block of wood must be: (choose one)

A) Up B) Down C) Zero

_____ 5) As the elevator rises, the buoyancy force on the block of wood must be: (choose one)

A) Greater than the weight of the block
B) less than the weight of the block
C) equal to the weight of the block_____ 6) The animation that best depicts the new orientation of the wood while the elevator moves is:
(choose one)

A) Animation 1 B) Animation 2 C) Animation 3