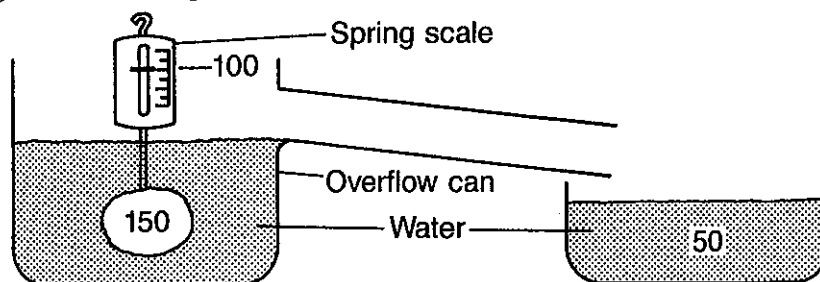


## Buoyancy: Archimedes' Principle

According to Archimedes' principle, an object placed in a fluid is buoyed up by a force equal to the weight of the displaced fluid.

### Sinking Objects

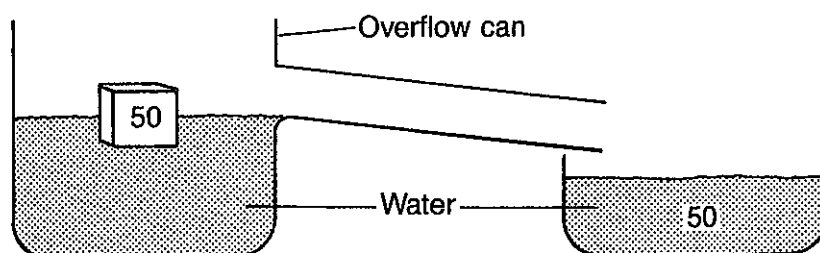
Use the diagram below to provide the missing information.



Weight of object in air \_\_\_\_\_  
 Weight of object in water \_\_\_\_\_  
 Apparent loss of weight \_\_\_\_\_  
 Gravity \_\_\_\_\_  
 Buoyancy \_\_\_\_\_  
 When an object sinks in water, gravity \_\_\_\_\_ buoyancy.

### Floating Objects

Use the diagram below to provide the missing information.



Weight of object in air \_\_\_\_\_  
 Weight of displaced water \_\_\_\_\_  
 Gravity \_\_\_\_\_  
 Buoyancy \_\_\_\_\_  
 When an object floats in water, gravity \_\_\_\_\_ buoyancy.