

Name: KEY

Test #2: Test Objectives

- D 1. If an ant were scaled up to the size of an elephant, the ant would be ____.
- A. Much stronger than the elephant
 - B. Of the same strength as the elephant
 - C. Weaker than the elephant, but able to run around
 - D. Too weak to even lift itself off the ground
- A 2. Archimedes' principle states that an object is buoyed up by a force that is equal to ____.
- A. The weight of the displaced fluid
 - B. The volume of the displaced fluid
 - C. The mass of the displaced fluid
 - D. The mass of the object
- A 3. An industrial container holds 200N of water. The area of the inside bottom of the container is 2m^2 . What pressure does the water exert on the bottom of the container?
- A. 100 N/m^2
 - B. 200 N/m^2
 - C. 400 N/m^2
 - D. 800 N/m^2
- A 4. Bernoulli's principle says that ____.
- A. As fluid speed increases, pressure decreases
 - B. As fluid speed decreases, pressure decreases
 - C. As fluid speed increases, pressure increases
 - D. As volume increases, pressure decreases
- C 5. When an inflated balloon is exposed to cold air,
- A. The temperature inside the balloon rises
 - B. The pressure inside the balloon rises
 - C. The volume of the balloon decreases
 - D. The volume of the balloon increases
- C 6. A fluid is
- A. A solid substance made up of crystals
 - B. A substance that has a definite shape and volume
 - C. A substance that flows
 - D. A substance that melts at a distinct temperature
- C 7. Smoke rises up a chimney partly because of
- A. Archimedes' principle
 - B. Pascal's principle
 - C. Bernoulli's principle
 - D. Newton's third law of motion