

Multiple Guess

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Which of the following is a fluid?
a. helium
b. ice
c. iron
d. gold
- _____ 2. Which of the following statements about floating objects is correct?
a. The object's density is greater than the density of the fluid on which it floats.
b. The object's density is equal to the density of the fluid on which it floats.
c. The displaced volume of fluid is greater than the volume of the object.
d. The buoyant force equals the object's weight.
- _____ 3. Which of the following statements about completely submerged objects resting on the ocean bottom is correct?
a. The buoyant force acting on the object is equal to the object's weight.
b. The apparent weight of the object depends on the object's density.
c. The displaced volume of fluid is greater than the volume of the object.
d. The weight of the object and the buoyant force are equal and opposite.
- _____ 4. A water bed that is 1.5 m wide and 2.5 m long weighs 1055 N. Assuming the entire lower surface of the bed is in contact with the floor, what is the pressure the bed exerts on the floor?
a. 250 Pa
b. 260 Pa
c. 270 Pa
d. 280 Pa
- _____ 5. How much pressure is exerted on a swimmer at the bottom of a 5.0 m deep swimming pool? ($\rho_w = 1.00 \times 10^3 \text{ kg/m}^3$, $P_o = 1.01 \times 10^5 \text{ Pa}$, and $g = 9.81 \text{ m/s}^2$.)
a. $1.5 \times 10^5 \text{ Pa}$
b. $4.2 \times 10^5 \text{ Pa}$
c. $2.1 \times 10^5 \text{ Pa}$
d. $1.0 \times 10^6 \text{ Pa}$
- _____ 6. The temperature in a container of fluid is
a. a measure of the potential energy of the particles of the fluid.
b. the total mass of the particles in the container.
c. a measure of the average kinetic energy of the particles of the fluid.
d. the number of particles in the container.
- _____ 7. If the flow rate of a liquid is measured at $8.0 \times 10^{-3} \text{ m}^3/\text{s}$ going through a 2.0 cm radius pipe, which of the following is the average fluid velocity in the pipe?
a. 0.64 m/s
b. 2.0 m/s
c. $4.0 \times 10^{-2} \text{ m/s}$
d. 6.4 m/s
- _____ 8. A water tunnel has a circular cross section where the diameter diminishes from 3.6 m to 1.2 m. If the velocity of water flow is 3.0 m/s in the larger part of the tunnel, what is the velocity of flow in the smaller part of the tunnel?
a. 9.0 m/s
b. 18 m/s
c. 27 m/s
d. 54 m/s
- _____ 9. In a building, water flows at 15 m/s through a pipe that has a radius of $4.0 \times 10^{-1} \text{ m}$. The water then rises 3.0 m to the second floor of the building. If the pressure remains unchanged, what is the speed of the water flow on the second floor?
($\rho_w = 1.00 \times 10^3 \text{ kg/m}^3$)
a. 13 m/s
b. 14 m/s
c. 15 m/s
d. 16 m/s
- _____ 10. Water flows in a creek bed that has a diameter of 1.6 m at 25 m/s. In a tiny waterfall, the water drops 2.0 m. If the creek bed below has the same diameter, what would be the velocity of water flow after the waterfall? ($\rho_w = 1.00 \times 10^3 \text{ kg/m}^3$)
a. 46 m/s
b. 26 m/s
c. 37 m/s
d. 34 m/s

Unit 5 Thermodynamics Practice Questions

The Princeton Review



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