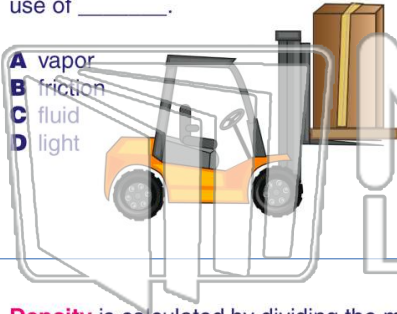




Name _____ Class _____ Date _____

1 All **hydraulic** equipment requires the use of _____.

- A vapor
- B friction
- C fluid
- D light



2 In the diagram below, a layer of **oil** sits on top of a layer of **water**. The explanation for this is _____.

- A the density of the oil is less than the density of water
- B the density of water is less than the density of oil
- C the densities of water and oil are the same
- D the densities of both the water and oil are changing



3 **Density** is calculated by dividing the mass of a substance by its _____.

4 If the density of an object is **10 g/cm³** and its mass is **200 g**, then its volume would be which of the following?



PREVIEW

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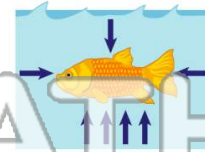
7 his surface area is **5 square meters**?
pressure = $\frac{\text{force}}{\text{surface area}}$

- A 500 Pa
- B 1000 Pa
- C 1500 Pa
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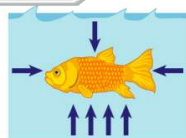
8 Which object receives the **greatest pressure** from the water?

- A top
- B bottom
- C left side
- D right side



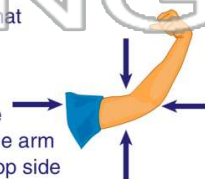
9 Imagine a fish swimming in a deep lake. What **two forces** are acting on this fish at the same time?

- A buoyant force and gravity
- B density and pressure
- C buoyant force and volume
- D density and volume



10 In the picture below, what statement about air pressure is **correct**?

- A it is the same on the top and bottom of the arm
- B it is greater on the top side of the arm
- C it is greater on the bottom of the arm
- D air does not exert pressure



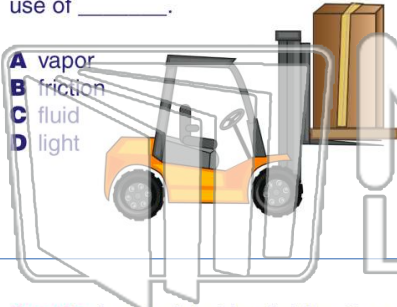


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1

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PREVIEW

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7

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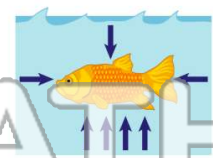
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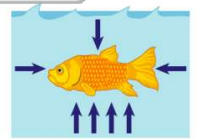
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