



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Subject- Physical science Answers of Worksheet- 25 Class – IX

Date -25.04.2020

Chapter- Pressure in solid,liquids and gases

- Answer the following questions (MCQ) : (1×15):

Q1. The weight of the water displaced is the same as the weight of the object placed in the water, the object will sink.

answer choices

False

- Question 2.

Q. The ship was able to float in the water because its weight was the same as the weight of the water it displaced.

answer choices

True

- Question 3.

Q. What was the principle Archimedes discovered?

answer choices

Principle of Buoyancy

- Question 4.

Q. What is buoyant force?

answer choices

An upward force exerted by fluids on an object.

- Question 5.

Q. What does buoyant mean?

answer choices

float

- Question 6.

Q. An empty water bottle floating on the water is an example of....

answer choices

negative buoyancy

- Question 7.

Q. A water bottle filled with stones and sinking in the water is an example of.....

answer choices

positive buoyancy

- Q8. Hot air is less dense than cold air

answer choices

true

- Question 9

Q. pushes an ice cube to the top of a glass of water

answer choices

buoyant force

- Question 10

Q. What is the formula for density?

answer choices

density = mass / volume

- Question 11

Q. This is a **measurement** of the amount of matter, or 'stuff', in an object or substance.

answer choices

volume

density

mass

length

- Question 12

Q. Which liquid is the least dense?

answer choices

plastic bottle

Question 13

Q. What happens when you heat a gas?

answer choices

It increases in volume.

Question 14

Q. The density of water is 1g/cm³. A substance will float if its density is less than that of water. Which of the following substance will float?

answer choices

substance 1

- Question 15.

Q. Archimedes' Principle states that...

answer choices

The buoyant force acting on an object equals the volume of the fluid displaced by the object.

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