



## ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Subject- Physical science Worksheet-25 Class – IX

Date -25.04.2020

Chapter- Pressure in solid,liquidsand 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

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True

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

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True

False

- Question 3.

Q. What was the principle Archimedes discovered?

answer choices

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Principle of Volume

Principle of Density

Principle of Buoyancy

Principle of Gravity

- Question 4.

Q. What is buoyant force?

answer choices

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An upward force exerted by fluids on an object.

An downward force exerted by fluids on an object.

• Question 5.

Q. What does buoyant mean?

[answer choices](#)

float

push

flying,

sink

• Question 6.

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

[answer choices](#)

positive buoyancy

negative buoyancy

• Question 7.

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

[answer choices](#)

negative buoyancy

positive buoyancy

• Q8. Hot air is less dense than cold air

[answer choices](#)

true

false

• Question 9

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

[answer choices](#)

buoyant force

density

a sinking object

compressed air

- Question 10

Q. What is the formula for density?

[answer choices](#)

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density = mass x volume

density = mass / volume

density = mass + volume

density = mass - volume

- Question 11

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

[answer choices](#)

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volume

density

mass

length

- Question 12

Q. Which liquid is the least dense?

[answer choices](#)

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oil

water

syrup

plastic bottle

- Question 13

Q. What happens when you heat a gas?

[answer choices](#)

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It gains mass.

It loses mass.

It increases in volume.

It decreases in volume.

- Question 14

Q. The density of water is  $1\text{g/cm}^3$ . A substance will float if its density is less than that of water. Which of the following substance will float?

answer choices

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substance 1

substance 2

substance 3

substance 4

- Question 15.

Q. Archimedes' Principle states that...

answer choices

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

The buoyant force acting on an object equals the weight (force of gravity) of the fluid displaced by the object.

The buoyant force acting on an object will always be equal.

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