

About what percentage of the molecules that make up the atmosphere are below an aircraft that flies at an altitude of 6 kilometers?

- A) 40%
- B) more than 50%
- C) 30%
- D) 50%
- E) 20% - *CORRECT ANSWERS* -B) more than 50

When you stand on one foot instead of two, the pressure you exert on the floor is

- A) less.
- B) the same.
- C) more.
- D) None of the above. - *CORRECT ANSWERS* -C) more

Twice as much, in fact!

Water pressure provided by a water tower is greater if the tower

- A) is taller.
- B) holds more water.
- C) Both A and B.
- D) None of the above. - *CORRECT ANSWERS* -A) is taller.

Only depth, not amount of water, contributes to pressure.

A cook who measures a specific amount of butter by placing it in a measuring cup with water in it is using the

- A) principle of buoyancy.

C) both of these

D) neither of these - *CORRECT ANSWERS* -C) both of these

Water pressure is greatest against the

A) bottom of a submerged object.

B) is the same against all surfaces

C) sides of a submerged object.

D) top of a submerged object. - *CORRECT ANSWERS* -A) bottom of a submerged object.

A completely submerged object always displaces its own

A) volume of fluid.

B) weight of fluid

C) density of fluid.

D) all of these

E) none of these - *CORRECT ANSWERS* -A) volume of fluid.

What is the approximate mass of a 1-square-centimeter column of air that extends from sea level to the top of the atmosphere?

A) 10 kilograms

B) 1 kilogram

C) 1 gram

D) 100 kilograms - *CORRECT ANSWERS* -B) 1 kilogram