

1. A venturi measures flow rate using a pressure comparison between the outside and inside of a pipe. a)True

b)False

2. An inflated balloon's shape is determined by internal pressure and external atmospheric pressure.

a)True

b)False

1. Answer b) False

A Venturi tube uses a the pressure measurement before and after a flow restrictor, both measurements inside the pipe.

2. Answer a) True

The pressure of a gas in a volume is equally distributed on the surface of the container. So in this case, inside the balloon the pressure will be equal on the entire surface, the push force will be the same everywhere and the deformation will be the same => round shape. The same principle applies on the outside, the atmospheric pressure is equally distributed on the exterior of the balloon.

5. The following question refers to the four selections by Albert Einstein:

These readings show that, between 1939 and 1952, Einstein

a) abandoned science and turned to political activism.

b) revised his opinions about the need for nuclear weapons.

c) worked tirelessly to abolish nuclear weapons.

d) devoted himself solely to scientific research.

A fundraising event offered people a chance to pay \$4 to go through a corn maze (shown below) in a field in the fall. The maze neither led to nothing or a prize of \$10. If participants can only move forward and when they come to a fork in the maze they are equally likely to take any one of the paths, what is the probability that they will win money? Group of answer choices

1/3

2/3

1/2

3/5

The weight of an object _____. is the amount of matter it contains

refers to the acceleration of gravity on an object's mass

is basically the same quantity as its mass, but expressed in different units

is the force with which it is attracted to earth

Which sentence has an error in parallel structure? Question 7 options:

The teacher instructed students to cap their pens, close their test booklets and look up to the front of the classroom.

William vowed that he would never again do the following things: drink to excess, smoke cigarettes, or use curse words.

Margaret could not believe that the corrupt cop wrote her a ticket, he spoke to her rudely, and he kicked her car tires as he left.

In order to finish her project, Meghan needed to paint the tri-board, staple her documents to it, and decorate it all with glitter.

culture is a learned _____ meaning system that consists of patterns of traditions, beliefs, values, norms, meanings, and symbols that are passed on from one generation to the next and are shared to varying degrees by interacting members of a community

If there is 8 g of a substance before a physical change, how much will there be afterwards?

hana is making breakfast for her family. the pancakes recipes require 8 tablespoons of butter and 4 eggs . the recipe makes 16 pancakes. what is the ratio of eggs used to pancakes made?

Which INFINITIVE (NOT conjugated) verb would you use to indicate "to drink?" (HINT: starts with a "b" and is 5 letters) Question 1 options:

What displacement do I have if I travel at 10 m/s E for 10 s?

I need this fast

Why landforms affect people?

According to the lesson, why did Germany's economy nosedive following World War I?

There are 21 liters of milk in 2 bottles, bottle A and bottle B. If bottle A contains 3 more liters of milk than Bottle B, How much milk is there in bottle B?

Suppose that circles A and B have a central angle measuring 100° . Additionally, the measure of the sector for circle A is 1071 m^2 and for circle B is 407 m^2 . If the radius of circle A is 6 m, what is the radius of circle B?

10 m

12 m

16 m

The table shows the battery life of four different mobile phones. Mobile Phone Battery Life
Phone Battery Life (hours) A 20 B 25 C 10 D 18
If 9.54% of the battery life of each mobile phone is used in a day by a typical user, which mobile phone would use a total of 1.908 hours of battery life in a day?

Jermaine and Lashonda each rub their dry hair with inflated balloons. While doing this, the other students notice that their hair is starting to stick straight out. Next, the teacher takes the balloons and places them right next to one another. However, the balloons will not stay next to each other, as they normally would. Instead, they spring apart in opposite directions. What is causing these balloons to push each other away?

Which sequence of formation in our Galaxy by age is correct", oldest to youngest? a) globular clusters, emission nebulae, open clusters b) Population I stars, Population II stars, Population III stars c) halo, spiral arms, globular clusters d) spiral arms, bulge, halo e) dark nebulae, planetary nebulae, emission nebulae"

What is an equation of the line that is perpendicular to $y-4=2(x-6)$ and passes through the point $(-3,-5)$

Zyrtec is an antihistamine used to relieve allergy symptoms true or false

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