

# What is weightlessness ??

- Weightlessness, condition experienced while in free-fall, in which the effect of gravity is canceled by the inertial force resulting from orbital flight. The term zero gravity is often used to describe such a condition.

OR

- Weightlessness is a situation in which the effective weight of the body becomes zero. Example 01: When a body is lying in a freely falling lift, then acceleration,  $a = g$ . So, the effective acceleration due to gravity in the lift.  $g' = g - a$ ?  $g' = g - g = 0$ .

OR

- Weightlessness is the complete or near-complete absence of the sensation of weight. This is also termed zero-G, although the more correct term is "zero G-force". It occurs in the absence of any contact forces upon objects including the human body.

OR

- The sensation of weightlessness, or zero gravity, happens when the effects of gravity are not felt. Technically speaking, gravity does exist everywhere in the universe because it is defined as the force that attracts two bodies to each other. But astronauts in space usually do not feel its effects.

OR

- Weightlessness of a body is the state in which the body experiences that the body is not being attracted by any force.

THANKS

A 276-inch board is cut into two pieces. One piece is five times the length of the other. Find the lengths of the two pieces

What is the following number in scientific notation?

56.71

How did both townspeople and monarchs benefit from their mutual support

Factor the expression  $2n^2 + 23n + 30$

An organ system is made of many \_\_\_\_\_ working together to do a special job plz help

Somatic cells of roundworms have four individual chromosomes per cell. How many chromosomes would you expect to find in an ovum from a roundworm?

A plank is 6.7 feet long Arancha wants to cut the plank into 0.8-foot pieces. How many 0.8-foot pieces can she get.?

Why does sir Gawain refuse the lady's gift of a gold ring?

The names of Jesus Christ that occur in the Bible more frequently following His Resurrection are: Jesus and Son of man

Christ and Savior

Son of man and Savior

Christ and Master

When asked if someone had ever tried to dissuade them from using a condom, \_\_\_\_ of male college students responded in the affirmative?

Read the passage from Animal Farm. Old Benjamin, the donkey, seemed quite unchanged since the Rebellion. He did his work in the same slow obstinate way as he had done it in Jones's time, never shirking and never volunteering for extra work either. About the Rebellion and its results he would express no opinion.

When asked whether he was not happier now that Jones was gone, he would say only "Donkeys live a long time. None of you has ever seen a dead donkey," and the others had to be content with this cryptic answer.

How does the central idea of this passage—that older generations are less excited about rebellion than younger ones—serve as social commentary?

It shows how rebellions are always led by younger generations.

It demonstrates how society unfairly treats older people.

It demonstrates how society makes progress with each new generation.

It points out the overenthusiasm and zealotry of the younger generation

A(n) \_\_\_\_\_ nation is a country that seeks to develop weapons of mass destruction; supplies, supports, or provides a safe haven for terrorist organizations; disregards international law; violates human rights; and threatens regional or world security.

Susan is buying three different colors of tiles for her kitchen floor. She is buying 25 more red tiles than beige tiles, and three times as many navy-blue tiles as beige tiles. If Susan buys 435 tiles altogether, how many tiles of each color does she buy?

Identify the correct charge of each atomic particle A.Electron=positive;proton=negative;neutron=no charge

B.Electron=negative;proton=positive;neutron=no charge

C.Electron=no charge;proton=negative;neutron=positive

D. Electron=negative; proton=no charge ; neutron=positive

Emily went to the movie theater for her birthday. A mix of adults and children attended, making a total of 22 people. Each adult ticket was \$9 and each child's ticket was \$5.50. If the total cost for the party was \$125.50, then how many adults and how many children attended?

The sum of the measures of the interior angles in a polygon is 540 degrees. How many sides does the polygon have?

Historical fiction is concerned with depicting historical figures and events in a new light. In this excerpt from Arthur Conan Doyle's "The Contest," which sentences most clearly describe historical elements? Policles sprang readily to his feet at the challenge, and the great company making way for him to pass, he found himself a minute later standing in his unkempt garb, with his frayed and weather-beaten harp in his hand, before the expectant crowd.

A. He stood for a moment tightening a string here and slackening another there until his chords rang true.

B. Then, amid a murmur of laughter and jeers from the Roman benches immediately before him, he began to sing.

C. He had prepared no composition, but he had trained himself to improvise, singing out of his heart for the joy of the music.

He told of the land of Elis, beloved of Jupiter, in which they were gathered that day, of the great bare mountain slopes, of the swift shadows of the clouds, of the winding blue river, of the keen air of the uplands, of the chill of the evenings, and the beauties of earth and sky.

D. It was all simple and childlike, but it went to the hearts of the Olympians, for it spoke of the land which they knew and loved.

E. Yet when he at last dropped his hand, few of them dared to applaud, and their feeble voices were drowned by a storm of hisses and groans from his opponents.

He shrank back in horror from so unusual a reception, and in an instant his blue-clad rival was in his place. If he had sung badly before, his performance now was inconceivable. His screams, his grunts, his discords, and harsh jarring cacophonies were an outrage to the very name of music.

A student claims that a rotation of  $180^\circ$  about the center of a regular polygon carries the polygon onto itself. Which statement best describes the student's claim?

A

The student's claim is true for all regular polygons.

B

The student's claim is not true for any regular polygon.

C

The student's claim is true for regular polygons with an odd number of sides.

D

The student's claim is true for regular polygons with an even number of sides.

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