

# A mis-hit golf ball flies straight up in the air. Exactly 4.0 seconds later it lands right next to the tee. How high up did the golf ball go?

Answer:

19.6 m

Explanation:

The total motion of the golf ball lasts 4.0 seconds: since the motion is symmetrical, it takes 2.0 s for the ball to reach the highest point and then another 2.0 s to land back on the tee.

Therefore, we can just analyze the second half of the motion that lasts

$$t = 2.0 \text{ s}$$

During this time, the vertical distance covered by the ball is given by the equation:

where

$u = 0$  is the initial velocity (zero because the ball starts from its highest point, where the velocity is zero)

$$t = 2.0 \text{ s}$$

$g = 9.8 \text{ m/s}^2$  is the acceleration of gravity

Solving for  $d$ , we find:

So, the ball reaches a maximum height of 19.6 m.

Which is a sentence fragment? a. While you were gone, your room was painted green.

b. Wherever you see a silver fox like that.

c. Unless we can find a discount coupon, we'll have to wait until it goes on sale.

d. While we are out today, we have to stop at the grocery store.

What action did President Johnson take regarding President Kennedy's proposed Civil Rights Act? He convinced many legislators to vote against it.

He rewrote it to make its requirements stricter.

He used public sympathy to push it through Congress.

Which event occurred in 1963 and caused the country to experience a major transition?

the election of President Johnson

the assassination of President Kennedy

the passage of the Economic Opportunity Act

The Housing and Urban Development Act of 1965 and the Fair Housing Act of 1968 were both aimed at creating more housing outside major cities.

encouraging people to move to houses in urban areas.

improving housing and living conditions in cities.

Which part of Johnson's Great Society programs remains controversial today?

the cost of government spending

the motives of President Johnson

the importance of public education

Alessandro has been under a great deal of stress and is experiencing headaches and thinks he has a stomach ulcer as well. These are psychosomatic conditions would suggest he has entered which stage of the General Adaptation Syndrome?

On August 1 of the current year, Jamie Simmons received \$5,400 for legal services to be performed evenly throughout the next six months. An adjusted trial balance prepared on December 31 of the current year will show a credit balance in Unearned Revenue in the amount of: \_\_\_\_\_.

Which of the following will be produced when lithium metal (Li) is combusted? O<sub>2</sub>

LiO

H<sub>2</sub>O

Li<sub>2</sub>O

Tracy's rain barrel has a capacity of 27 quarts of water beths water barrel has a capacity of twice more the amount of Tracy's what capacity does Beth have

Calculate gcd(77, 30) by using the Euclidean algorithm. Find also integers u and v such that  $49u + 30v = 1$ . Furthermore, find such  $x \in \mathbb{Z}$  that  $30x \equiv 1 \pmod{77}$ .

A pineapple is 7 times as heavy as an orange. The pineapple also weighs 870 grams more than the orange. What is the total weight in grams for the pineapple and the orange?

Albinism is a recessive trait in humans that is controlled by a single gene. how many recessive alleles must a person have to have albinism? a. 2

b. 3

c. 1

d. 0

Explain the concept of racism and social Darwinism and how they relate to the policy of imperialism

What is the product of  $3x(x^2 + 4)$ ?

This year, when Latifa and Jameel add their ages, the sum is 29. Latifa's age is 10 less than twice Jameel's age. The system of equations that represents this situation is  $\{ L+J=29 \}$   $\{ L=2J-10$ . (L is Latifa's age and J is Jameel's age). How old is Latifa?

How do clauses help improve your writing?

Jill's company pays \$5000 a year for her health care costs. This is an example of a \_\_\_\_\_.

In a group of 1200 students there 300 vegetarians what is the ratio of nonvegetarians to vegetarians in the group

The judicial system of courts derives its powers from \_\_\_\_\_ of the Constitution. article 1 article 2 article 3 article 4

What is the main idea in this excerpt from a speech? Television has negative and positive qualities. Television shows can entertain people who are stuck inside on a rainy day. They can also teach English as a second language and inform people about the world around them. Although there are many great reasons to turn on your television, there are also bad parts about it. For example, some shows are full of violence, bad language, and other elements that aren't appropriate for young viewers. A. Television should be used only for educational purposes. B. Television helps new immigrants learn to speak English. C. Television has both good and bad sides to it. D. Television shouldn't be harmful to young viewers. E. Television sets should be turned off most of the day.

Which words are nonsense words in this excerpt from Carl Sandburg's "How the Animals Lost Their Tails and Got Them Back Traveling from Philadelphia to Medicine Rock"?

It was easy enough for the rabbit who has long ears and no tail at all except a white thumb of cotton. But it was hard for the yellow flongboo who at night lights up his house in a hollow tree with his fire yellow torch of a tail. It is hard for the yellow flongboo to lose his tail because it lights up his way when he sneaks at night on the prairie, sneaking up on the flangwayers, the hipers and hangjasts, so good to eat.

A)enough B)cotton C)flongboo D)hollow E)torch F)flongboo G)sneaks H)prairie

I)flangwayers J)hipers K)hangjasts

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