

a roller coaster is at the top of a hill and rolls to the top of a lower hill. If mechanical energy is conserved, on the top of which hill is the kinetic energy of the roller coaster larger?

Hello!!

Here we have a simple matter of conservation of energy. $ME = PE + KE$.

At point A we have $PE = mgh$ and $KE = \frac{1}{2}mv^2$. At point A all we have is PE since the coaster isn't rolling yet. But by conservation of energy, we know that it will have enough energy to roll down and get to an equal height on another hill. Providing we are neglecting friction and drag and resistance forces which we are in this case. So we can conclude that the KE will be greater at Point B since $ME = PE + KE$ and for ME to remain the same and we know the PE is less on lower hill, so we can conclude that KE on lower hill is greater to keep ME the same and have conservation of energy.

Hope this helps you understand the concept!! Any questions please just ask!! Thank you so much!!

What does Romeo and Juliet have in common with Senecan drama in terms of content? Select all that apply.

a.) moralizing

b.) emphasis on fate

c.) prophetic dreams

d.) moments of comic relief

I am so stuck on this problem. Can I get some help, please?

Which of the following is not true about prepositional phrases

a. it ends with preposition

b. it contains noun or pronoun and its modifiers

c. it can have a compound object of the prepositional phrase

d. a sentence can contain more than one prepositional phrase.

Some people are worried that with machines becoming smarter, we will soon have artificially intelligent machines that can kill people. Just like in the movies. Is this concern valid. Thesis:

Reason 1:

Reason 2:

Conclusion:

What does this mean? Is it ok to feel this way? I have a friend. We barely hang out and we text rarely from time to time. He's online all the time. But, he never talks to me claiming he's "antisocial" I don't know why. I'm really scared to talk to him because he always types "." After I message him something or "?" And it makes me feel stupid and insecure and I'm too afraid to tell him. Even though he tells me I'm his BFF and that he loves me as a friend. He means everything to me but I get mad when we don't talk Bc I feel so lonely.

Woodrow Wilson's "New Freedom" dealt with reform along which of these issues? A) peace

B) tariffs

C) prohibition

D) segregation

Sarah has 12 red pencils she has 7 more red pencils than yellow how many yellow pencils does she have

Add the numbers in the series $3+11+19+27+\dots+395+403$.

After world 1, many people in the United States wanted to avoid war because they

Why was the Dutch East India Company called a multinational corporation? It was a Dutch company but was owned by monarchs of many European nations.

It was a Dutch company but operated its business in Indonesia.

It was a Dutch company but established colonies in the Americas.

It was a Dutch company but only did business in Indian tea.

Round 56,789 to the nearest thousand

Taking into account the equation of exchange and the instruments of monetary policy, which of the following would help the Fed to slow an excessively rapid rate of inflation?
a) Making open market sales of securities
b) Raising the discount rate
c) Raising the required reserve ratio
d) All of the above would help slow inflation

What happens to the mass of an object when it is cooled?

For which question could a testable hypothesis be developed

What is only found in females?

Which sentence does not contain any punctuation errors?
A. My two youngest cousins, Jerry and Bobby, came with us to the museum.
B. My two youngest cousins, Jerry, and Bobby, came with us to the museum.
C. My two youngest cousins Jerry and Bobby came with us to the museum.
D. My two youngest cousins, Jerry and Bobby came with us to the museum.

10. Which of the following was one effect of the Sepoy Rebellion?

The British Parliament put India under the rule of the British government and monarch.

"596

The British Increased reforms, attempting to convert Indians to Christianity.

0

The British Parliament extended the rule of the East India Company.

0

The British ended the rebellion without hurting any Indian civilians.

How much money should you save in case you have an emergency? Eight months of living expenses

Six months of living expenses

Twelve months of living expenses

Two months of living expenses

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