

# What would happen to an EM wave that never came into contact with matter?

If it was propagating through completely free space, it would be completely lossless and would therefore continue without change for infinity.

President Truman's action upon hearing of the invasion of South Korea illustrated his commitment to a foreign policy of

The sum of the ages of Raj and Ben is 37 years. 5 years ago, Raj's age was twice of Ben. Find their present ages.

What is most dense chlorine or oxygen bromine silver

Which of the followings is true about gluconeogenesis? A. One ATP and one GTP is needed to convert pyruvate to PEP B. Oxaloacetate is involved in generating PEP C. Gluconeogenesis primarily occurs in the mitochondria D. It occurs in the brain

What is  $-(2 \times 7) + (4g \times 9a)$

For what reasons could a theory be changed or replaced?

Stock A has a beta of 0.8, Stock B has a beta of 1.0, and Stock C has a beta of 1.2. Portfolio P has equal amounts invested in each of the three stocks. Each of the stocks has a standard deviation of 25%. The returns on the three stocks are independent of one another (i.e., the correlation coefficients all equal zero). Assume that there is an increase in the market risk premium, but the risk-free rate remains unchanged. Which of the following statements is correct? Answers: a-The required returns on all three stocks will increase by the amount of the increase in the market risk premium. b-The required return on Stock A will increase by less than the increase in the market risk premium, while the required return on Stock C will increase by more than the increase in the market risk premium. c-The required return of all stocks will remain unchanged since there was no change in their betas. d-The required return on the average stock will remain unchanged, but the returns of riskier stocks (such as Stock C) will decrease while the returns on safer stocks (such as Stock A) will increase. e-The required return on the average stock will remain unchanged, but the returns of riskier stocks (such as Stock C) will increase while the returns of safer stocks (such as Stock A) will decrease.

Proponents of corporate social responsibility (CSR) strongly believe in benevolence; however, they still want their businesses to be profitable. In the long run, they believe \_\_\_\_\_.

Seat belts and air bags save lives by reducing the forces exerted on the driver and passengers in an automobile collision. Cars are designed with a "crumple zone" in the front of the car. In the event of an impact, the passenger compartment decelerates over a distance of about 1 m as the front of the car crumples. An occupant restrained by seat belts and air bags decelerates with the car. By contrast, an unrestrained occupant keeps moving forward with no loss of speed (Newton's first law!) until hitting the dashboard or windshield. These are unyielding surfaces, and the unfortunate occupant then decelerates over a distance of only about 5 mm. Part A Part complete A 60 kg person is in a head-on collision. The car's speed at impact is 15 m/s. Estimate the net force on the person if he or she is wearing a seat belt and if the air bag deploys.

Bertie, a truck driver, is told by the boss, Percy, to quickly deliver a load of steel and to get to the location within an hour. Bertie replied, "That's impossible—I'd have to go 90 miles per hour to do that." Percy said, "Well, you'd best get started." Not surprisingly, Bertie was stopped by a highway patrol officer and fined for both speeding and reckless driving. At court, Bertie told the judge that the ruling should be "not guilty" because Bertie was only acting upon orders of Bertie's

boss. Is this reasoning correct?

A reverse stock split is defined as a(n): a. increase in the number of shares outstanding.

b. company buying back existing shares of its stock on the open market.

c. company issuing additional shares to its existing shareholders.

d. decrease in the number of shares outstanding without affecting total owners' equity.

e. decrease in both the number of shares outstanding and the market price per share.

Why do scientists classify organisms?

Each of the items below must be considered in preparing a statement of cash flows for Baskerville Co. for the year ended December 31, 2020. For each item, state how it should be shown in the statement of cash flows for 2020 if the indirect method is used. (a) Issued bonds for \$200,000 cash. (b) Purchased equipment for \$150,000 cash. (c) Sold land costing \$20,000 for \$20,000 cash. (d) Declared and paid a \$50,000 cash dividend

What does M equal in algebra

The fertilizer ammonium sulfate,  $(\text{nh}_4)_2\text{so}_4$ , is prepared by the reaction between ammonia ( $\text{nh}_3$ ) and sulfuric acid:  $2\text{nh}_3(\text{g}) + \text{h}_2\text{so}_4(\text{aq}) \rightarrow (\text{nh}_4)_2\text{so}_4(\text{aq})$  how many kilograms of  $\text{nh}_3$  are needed to produce  $3.60 \times 10^5$  kg of  $(\text{nh}_4)_2\text{so}_4$ ?

Manatees, aquatic mammals inhabiting Florida's rivers and coastal waters, swim close to the surface and are frequently killed in collisions with boats. To address the problem, boat traffic in manatee-populated waters is being required to maintain very low speeds. Unfortunately, manatees are unable to hear low-pitched sounds and a boat's sound lowers in pitch as the boat slows. Therefore, this approach may in fact make things worse rather than better. Which of the following, if true, casts most doubt on the conclusion? (A) The areas where boats would have to maintain low speeds were decided partly on the basis of manatee-population estimates and partly from numbers of reported collisions between manatees and boats. (B) Because the water hyacinth that manatees feed on grows best in water that is nearly still, water hyacinth beds can be disturbed or damaged by fast-moving boat traffic. (C) Over the last several decades, boat traffic in Florida's coastal waters has been increasing almost continuously and now represents the greatest threat to the endangered manatee population. (D) The sound of a boat engine generally travels much further under water than it does through the air. (E) When experimenters exposed manatees to the recorded sounds of boats moving at various speeds, the creatures were unable to discern the sounds over normal-background noise.

Solar energy received by the Earth's surface causes the Earth's surface to heat up during the day. Which of the following heat transfer mechanisms is the main cause of the surface gaining heat? A. radiation B. convection C. conduction D. advection

Glucose is the monomer for these biomolecules which are used for quick energy

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