

# **A car slams on its brakes creating an acceleration of $-3.2 \text{ m/s}^2$ it comes to a rest after traveling a distance of 210 m what was its velocity before it began to accelerate**

The initial velocity of the car is 36.6 m/s

Explanation:

The motion of the car is a uniformly accelerated motion (=constant acceleration), therefore we can apply suvat equations:

where

v is the final velocity

u is the initial velocity

a is the acceleration

s is the displacement

For the car in this problem, we have:

v = 0 is the final velocity (the car comes to a stop)

a is the acceleration

s = 210 m is the displacement of the car

Solving for u, we find the initial velocity:

Learn more about accelerated motion:

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What is the answer of 30% of \$40.00 please tell with the steps

Products include goods and services, as well as \_\_\_\_, which are thoughts, opinions, and philosophies that can be marketed, just as goods and services can.

(Remember to type only one word in the blank.)

Some organizational factors increase a project's likelihood of success. identify these "facilitators" for the green project.

Awesome autos car detail charges \$30 for a full service detail on SUVs. The equation  $30x+45y=450$  represents the amount that must be earned each hour to cover expenses, where  $x$  represents cars and  $y$  represents SUVs. Determine the  $x$  and  $y$  intercepts of this equation and state what each one means in terms of business

Which best describes the Vedas

What is 48 divided by 1261

The word dabbling best describes which occurrence from the third wish

A sociologist interviews high-salaried corporate chief executive officers (CEOs) to discover whether they feel stress in their everyday lives as a result of the pressure to produce at an unrealistic level. 1. This sociologist is employing.

Multiple Choice:

A. verstehen.

B. alienation.

C. globalization techniques.

D. anomie.

Solve the inequality  $W > Y$  plus  $H$  all divided by  $P$  for  $H$ .

It is believed that \_\_\_\_\_

may affect climate.

The Jacksons wish to build a rectangular enclosure for their dog, Fido. They purchased 100 feet of fencing for the enclosure. The area of the enclosure,  $A$ , is related to the length of one of the sides,  $x$  (measured in feet), by the formula  $f(x) = ?x^2 + 50x$ . Identify the vertex of this situation and explain its meaning in the context of the problem?

Identify the tourist destination that best fits this description.

Son famosas por sus numerosas especies endémicas de flora y fauna y por los estudios de

Charles Darwin. A.) las ruinas de Teotihuacán

B.) las Islas Galápagos

C.) las ruinas de Machu Picchu

D.) las playas de Puerto Rico

What is the traditional female gender role in the culture esquibel describe

Which of the following are examples of managing resources check all the boxes that apply

Calculate the pH of a solution formed by mixing 200.0 mL of 0.30 M HOCl (hypochlorous acid) with 300.0 mL of 0.20 M NaOCl (sodium hypochlorite). The  $K_a$  for HOCl is  $2.9 \times 10^{-8}$ .

Which u.S. President approved construction of the hydrogen bomb?

One of the great upcoming sports in the Olympics is the sport of curling. Write a brief essay on the uses of momentum collisions in curling. Be sure to discuss the importance of massive stones and of going last.

The measure of an angle is  $74.7^\circ$ . What is the measure of a supplementary angle help fast pls

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