

**Record your findings about sound and light waves for each of the following.**

- Traveling through air**
- Traveling through metal**
- Why light travels faster**

Answer:

Sound waves travelling through the air: Sound waves travelling through air are just like longitudinal waves lacking compressions and rarefactions. The speed of sound waves in air is approximately 332 metres per second.

Light waves travelling through air: Light waves travel in air at a much faster rate than sound waves. Light waves can travel with a speed of 300 000 kilometres per second through air.

Sound waves traveling through metal: Sound waves travel about 17 times faster in metal as compared to air. The sound waves travel with an approximate speed of 5,960 meters per second in metals.

Light waves travelling through metal: The speed of light waves in a metal medium is usually at a net speed which is less than  $3.00 \times 10^8$  m/s.

Light travels faster than sound waves because light waves are not pressure waves like the sound waves. They also do not require a medium as the sound waves.

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Explanation:

How to graph  $-6x + 4y = -12$

What is the differences between gods and humans?

Use 1% or 10% to estimate 8% of 310

When was the poem Daddy Fell Into the Pond by Alfred Noyes written?

Para la clase de matemáticas NO necesito \_\_\_\_\_.

Having a wide range or extent; comprehensive; extensive is the definition of

a teacher uses 36 centimeters of tape to hang up 9 student projects. At this rate, how much tape would the teacher need to hang up 10 student projects?

In this passage, Locke is describing the "state of nature." For Locke, this state is one in which people are

The sum of a 1 digit number and a 3 digit number is 217. The product is 642. One number is between 200 and 225. What are the numbers?

Cecelia studied for the SAT for 20 minutes every day in the first week, 30 minutes in the second week, 40 minutes in the third week, and 50 minutes in the fourth week. Christopher studied for the SAT for 5 minutes every day in the first week, 10 minutes in the second week, 20 minutes in the third week, and 40 minutes in the fourth week.

Which statement best describes the methods used by Cecelia and Christopher to increase the time they spent studying?

A. Cecelia's method is exponential because the number of minutes increased by an equal number every week.

B. Christopher's method is exponential because the number of minutes increased by an equal factor every week.

C. Both Christopher's and Cecelia's methods are linear because the number of minutes increased by an equal factor every week.

D. Both Christopher's and Cecelia's methods are linear because the number of minutes increased by an equal number every week.

After making minor changes to a team report, Jeff felt like he had done enough work on the project. When he was asked to contribute more, he got offended and

quit responding to requests from some team members. Jeff's inability to receive critical feedback indicates a lack of \_\_\_\_\_ skills.

Which term describes the nationalist movement that sought to create a nation-state for the Jewish people

Which of the following best describes the term metabolism? A.the rate at which a person eats B.the rate at which a person removes C.the rate at which a person's body burns calories D.the rate at which a person's body makes calories

How many bones does a human body have?

Which of the following options results in a graph that shows exponential decay?  $f(x) = 0.6(2)^x$

$$f(x) = 3(0.7)^x$$

$$f(x) = 0.4(1.6)^x$$

$$f(x) = 20(3)^x$$

Thesis fails to put up the white sail which trait does this action reveal (A heartless

(B immature

(C thoughtless

(D responsible

Birth control methods can be behavioral, barrier, or hormonal. Which is a behavioral method of birth control?

It's important to match your exercise shoes with the type of exercise in which you will be participating. T

F

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