

A 25.0 mL sample of a solution of a monoprotic acid is titrated with a 0.115 M NaOH solution. The end point was obtained at about 24.8 mL. The concentration of the monoprotic acid is about mol/L. A) 25.0

B) 0.0600

C) 0.240

D) 0.120

E) None of the above

Answer:

The concentration of the acid is about 0.114 M (option E)

Explanation:

Step 1: Data given

Volume of the monoprotic acid = 25.0 mL = 0.025 L

Molarity of the monoprotic acid = ?

Molarity of the NaOH solution = 0.115 M

Volume NaOH = 24.8 mL = 0.0248 L

Step 2: Calculate the concentration

$$a * C_b * V_b = b * C_a * V_a$$

? a = the coefficient of NaOH = 1

? C_b = the molarity of the acid = TO BE DETERMINED

? V_b = the volume of the acid = 0.025 L

? b = the coefficient of the acid = monoprotic = 1

? C_a = the molarity of NaOH = 0.115 M

? V_a = the volume of NaOH = 0.0248 L

$$1 * C_b * 0.025 = 1 * 0.115 * 0.0248$$

$$0.025 C_b = 0.002852$$

$$C_b = 0.11408 \text{ M}$$

The concentration of the acid is about 0.114 M

In two or more complete sentences, explain how you can use the two functions, C(m) and T(m) to determine how many miles, m, a car needs to be driven, during a one day car rental, in order for the total cost to be same at both car rental companies. In your final answer, include a solution for the number of miles, m. C(m) charges a flat rate of \$41 and an extra fee of \$0.10 per mile driven.

T(m) charges a fee of \$0.25 per mile driven.

Excerpt from Viewpoints on Vaccines Todd Cotterman and Janice Rowker

Excerpt 1: The ingredients in vaccines are shocking. Besides the bacteria that supposedly build up a child's immunity to disease, many vaccines also contain aluminum, monosodium glutamate or MSG, and formaldehyde. That last ingredient is a known carcinogen. Can you imagine injecting a healthy newborn with a known cancer-causing agent?

Excerpt 2: Most people received vaccinations as children and led healthy lives, so they do not understand how their children could be in danger. The truth is children today receive more vaccine doses than we did when we were young. Do you remember getting the chicken pox? Today, we vaccinate kids against this common childhood disease. While the chicken pox is not fun, there is no reason to immunize a child against it. After having the chicken pox, your body builds up a natural immunity to it. As a parent, I know that I do not want unnatural chemicals in my children's bodies.

What is the overall tone created by the use of rhetorical questions in the second passage?

Question 4 options:

The use of rhetorical questions scares the reader and creates a more fearful tone than the first passage.

The use of rhetorical questions confuses the reader and creates a more ominous tone than the first passage.

The use of rhetorical questions delights the reader and creates a more humorous tone than the first passage.

The use of rhetorical questions engages the reader and creates a more personable tone than the first passage.

Lamar sells another broker's \$800,000 listing for \$785,000 at a commission rate of 6.5%. Lamar has a 40% commission split with his broker. If there is also a 50% brokerage split, what commission will Lamar receive?

How did Negroes in 1963 join the Birmingham Campaign?

Yesterday, a local radio station played 89 songs prior to 10 a.m. The station also played 11 songs per hour for the remainder of the day. If a person listened to the radio station yesterday afternoon for x hours, which of the following equations can be used to find the number of songs the person listened to?

A. $y = 11x$

B. $y = x + 11$

C. $y = 89x + 11$

D. $y = 11x + 89$

What are examples of transfer propaganda?

Anyone know what is half of 135

In which layer of Earth's atmosphere can we find the International Space Station?

The reason a character thinks, feels, or acts a specific way is called: thematic development.

plot structure.

character motivation.

prior knowledge.

Two of the energy levels can hold eight electrons each. Which energy levels are they?

You take a test with 32 questions on it. You answer 24 questions correctly. What percent of the questions do you answer correctly?

Which sentence must be revised to eliminate the preposition at the end? A. If no one answers the door, then please let yourself in.

B. The top steps are fine, but be careful of the slippery stairs below.

C. Where are Katelyn and Ella walking to?

D. Do you know what Naveen was talking about?

You are asked to draw a triangle using three of the following angles: 0° , 30° , 45° , 55° , 60° , 80° , 90° , 105° . Which triangle cannot exist? A) 30° , 60° , 90° B) 45° , 55° , 80° C) 30° , 45° , 105° D) 30° , 45° , 55°

Social Darwinism is the theory that a. only countries with colonies can compete in the world market.

b. life consists of competitive struggles in which only the strong survive.

c. the American frontier stopped people from rebelling in the United States.

d. the United States should expand its territory from the Atlantic and the Pacific oceans.

How many license plates are there if a license plate contains 3 letters from the 26 available in the English alphabet followed by 3 digits. Letter or digit repetitions is allowed.

Which country colonized Brazil in 1500?

a. England

b. France

c. Portugal

d. Spain

Sal is trying to determine which cell phone and service plan to buy for his mother. The first phone costs \$100 and \$55 per month for unlimited usage. The second phone costs \$150 and \$51 per month for unlimited usage. How many months will it take for the second phone to be less expensive than the first phone?

The inequality that will determine the number of months, x , that are required for the second phone to be less expensive is $100 + 55x > 150 + 51x$
 $100 + 55x > 150 + 51x$
 $100x + 55 > 150x + 51$
 $100x + 55 < 150x + 51$

The solution to the inequality is $x > 2.4$ or $x < 12.5$.

Sal's mother would have to keep the second cell phone plan for at least 231213 months in order for it to be less expensive?

QUESTION 2 Choose the answer.

What is a question you can ask yourself while reading to help you identify main ideas?

- a. Who or what is this text about?
- b. What is the most important point the author wants me to understand?
- c. What extra information is the author giving me to help me understand the main idea?
- d. What is the effect of the author's choice of words?

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