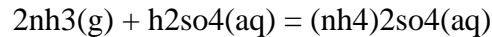


The fertilizer ammonium sulfate, $(\text{NH}_4)_2\text{SO}_4$, is prepared by the reaction between ammonia (NH_3) and sulfuric acid: $2\text{NH}_3(\text{g}) + \text{H}_2\text{SO}_4(\text{aq}) \rightarrow (\text{NH}_4)_2\text{SO}_4(\text{aq})$ how many kilograms of NH_3 are needed to produce 3.60×10^5 kg of $(\text{NH}_4)_2\text{SO}_4$?

The chemical reaction would be:



To determine the ammonia needed, we use the given amount of the product to be produced and use the chemical equation to relate the substances. We do as follows:

$$3.60 \times 10^5 \text{ kg } (\text{NH}_4)_2\text{SO}_4 \left(\frac{1 \text{ kmol}}{132.14 \text{ kg}} \right) \left(\frac{2 \text{ kmol NH}_3}{1 \text{ kmol } (\text{NH}_4)_2\text{SO}_4} \right) \left(\frac{17.04 \text{ kg}}{1 \text{ kmol}} \right) = 92846.98 \text{ kg NH}_3 \text{ needed}$$

R value of

X=10, 11, 12, 13, 14 y=10, 12, 16, 17, 18

What would be the value of x

The perimeter of a rectangular town is 32 miles its width is 5miles find the length. plz

The surface area of a rectangular prism is 792 units². The length of the prism is 2 times the width, and the width is 4 times the height. What is the volume of the prism?

Why did the ufw stop the boycott in 1975 ?

The ratio of blue marbles to redmarbles in a bag is 11:9. If there are 99 blue marbles, in the bag, how many red marblesare there?

A car travels $83 \frac{7}{10}$ miles on $2 \frac{1}{4}$ gallons of fuel. Which is the best estimate of the number of miles the car travels on one gallon of fuel

How many weeks and days are in a leap year?

What was the main concern with the first draft of the articles of confederation

Why are you more likely to regain lost weight if you dieted without exercising? a. dieting alone slows the body s metabolism.

b. dieting is a short-term solution, and not a long-term one.

c. dieting can cause hunger sensations to increase to higher levels than what was experienced before the diet began.

d. dieting decreases insulin stability, which in turn causes more food cravings.

The daytime temperature in Pinedale was $7 \frac{1}{2}$ degrees Celsius yesterday. Today the temperature dropped to -3 degrees Celsius. The net change in the temperature is

What property or properties of gases can you point to support the assumption that most of the volume in a gas is empty space?

For the month of March in a certain city, 57% of the days are cloudy. Also in the month of March in the same city, 55% of the days are cloudy and rainy. What is the probability that a randomly selected day in March will be rainy if it is cloudy?

Suppose that x and y are both integers. find the solution of $10x^2+11xy+3y^2=7$

A local clothing shop is marking down all of its summer clothes by 75%. sarah would like to purchase a swimsuit that is originally priced at \$80. when she gets to the register, she signs up for a loyalty cards that saves her an additional 10%. how much did she spend on the swimsuit and what total percent did she receive off? a. Find the markdown price of the swimsuit.

b. Then, find the markdown of the loyalty card.

c. Subtract to find the final price.

What is the biggest part of the Declaration of Independence?

Which of the following terms best describes a condition in which a quantity decreases at a rate that is proportional to the current value of the quantity? A.

exponential growth B. Exponential decay C. Positive slope D. Negative slope

John can reach 60 centimeters above the top of his head. If John is 2 meters tall, how high can he reach?

6. If a person starts investing \$100 per month starting at age 21, and that money earns a 5% return every year, how much will this person have when turning 70 years old? For ease of calculation, assume starting balance of \$0 and annual contributions of \$1,200 ($12 \times \100).

1. [Home](#)
2. [More Solution](#)