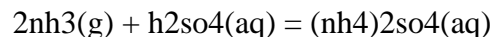


**The fertilizer ammonium sulfate,  $(\text{NH}_4)_2\text{SO}_4$ , is prepared by the reaction between ammonia ( $\text{NH}_3$ ) and sulfuric acid:  $2\text{NH}_3(\text{g}) + \text{H}_2\text{SO}_4(\text{aq}) \rightarrow (\text{NH}_4)_2\text{SO}_4(\text{aq})$  how many kilograms of  $\text{NH}_3$  are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

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:

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

What different paths did Americans in the northeast take in the period from 1800 to 1850, and what challenges did they face?

Which of these situations reveals internal conflict? A.) Mana is embarrassed by her family's wealth and wishes she could feel proud instead.

B.) Dan is determined to become an actor. He joins a community theater production against his father's wishes.

C.) Leo wades through floodwater so that he can get important supplies from the supermarket.

D.) Nina loses her bus ticket and can't go on a skiing trip she has been planning for weeks.

E.) Tory fulfills his dream of running a marathon after training diligently for months.

Which number has a 3 with a value that is 100 times greater than the value of 3 in 20.342 ?

How far away is the moon?

The first pharaoh of Egypt might be credited with introducing what development to the kingdom

The Communist Manifesto encouraged the working classes by stating that \_\_\_\_\_. Select all that apply. 1. a classless society would come after a brief proletariat dictatorship.

2. taxes on the poor would be abolished.

3. the government would provide all farm-workers with jobs.

4. private education would be abolished.

5. the government would hand over all responsibility to the people.

Which sentence does not contain any errors in comma usage? a. Mount Everest is in the Himalayas, on the border, between China and Nepal.

b. On October 1, 1890, Yosemite National Park was established.

c. Has he ever driven to Myrtle Beach South Carolina?

d. This year Labor Day is on Monday September 2.

How do landforms affect life on earth

PLEASE HELP ASAP!!!!!! Use the Banks of the Indus Map, located in the Assessment Resources tab under Materials, to answer this question. Which mountain range is located between Nepal and Tibet? A. Himalaya B. Indian Alps C Zagros Mountains D. Hindu Kush

The wolf of the waves had won his life

What is the backbone of DNA? plz help ASAP

what does a nucleotide consist of

9,002,000 -  $5 \times 10^6$

What's the difference?

Unable to make fresh progress in deciphering the demotic passage, Young turned his attention to the hieroglyphs on the Stone. The beginning of the hieroglyphic inscription was missing, but most of the final lines were complete. Young compared them carefully with the last lines in the demotic version, and made an important discovery. In this excerpt, the author's description of Thomas Young's actions portray him as a person who

gives up easily.

believes in luck.

tries new ideas.

takes silly risks.

HEEEEEELP Question:

Find  $2a(3 - b)$  if  $a = 4$  and  $b = 5$ .

Show all work for full credit

Which best describes how the Supreme Court plan for desegregation was implemented? It was quick and easy. It was slow and difficult. It was quick, but difficult. It was slow, but easy.

An object weighs 32 newtons. What is its mass if a gravitometer indicates that  $g = 8.25 \text{ m/s}^2$ ? 264 kg

0.257 kg

3.88 kg

In what ways is the Magna Carta still influential today?

Why have many highly educated people created a brain drain by leaving Iran

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