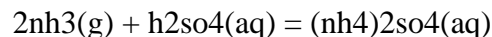


**The fertilizer ammonium sulfate,  $(\text{NH}_4)_2\text{SO}_4$ , is prepared by the reaction between ammonia ( $\text{NH}_3$ ) and sulfuric acid:  $2\text{NH}_3(\text{g}) + \text{H}_2\text{SO}_4(\text{aq}) \rightarrow (\text{NH}_4)_2\text{SO}_4(\text{aq})$  how many kilograms of  $\text{NH}_3$  are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

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

Permeable rock layers or sediments that transmit ground water freely are called \_\_\_\_\_. A. Caverns

B. Aquifers

C. Springs

D. Aquitards

When you see information in brackets, these are \_\_\_\_\_. Dialogue

Stage directions

Setting

Actor names

Cells go through periods of growth and division. Cell division occurs during

Clients who feel that they have suffered damages as a result of a professional's breach of his or her duty of care can bring a negligence case against the professional referred to as a \_\_\_\_\_ case a. malfeasance

b. malpractice

c. mistake

d. physician liability

e. physician guilty

How many moles of  $\text{H}_2\text{SO}_4$  are required to completely neutralize 0.10 moles of  $\text{Ca}(\text{OH})_2$ ?

Two cars leave a town at the same time heading in opposite directions. One car is traveling 12 mph faster than the other. After 2 hours, they are 232 miles apart.

What is the speed of each car? 52 mph; 64 mph 55 mph; 70 mph 92 mph; 104 mph 98 mph; 110 mph?

The rights to vote, petition, and assembly are all examples of which type of citizens' rights?

To order a class ring, students must decide on a gold, silver, or white gold band and one of 15 stones. They must also choose from one of 30 activity symbols to put on the side. How many different ring selections are there?

A population of ground squirrels has an annual per capita birth rate of 0.06 and an annual per capita death rate of 0.02. Calculate an estimate of the total number of individuals added to (or lost from) a population of 1000 individuals in one year.

Allen started his homework at 8:10 p.M. And worked for 45 minutes. Then he phoned a friend and talked for 20 minutes He went to bed when he finished the call . At what time did Allen go to bed?

Wie Corp's sales last year were \$315,000, and its year-end total assets were \$355,000. The average firm in the industry has a total assets turnover ratio (TATO) of 2.4. The firm's new CFO believes the firm has excess assets that can be sold so as to bring the TATO down to the industry average without affecting sales. By how much must the assets be reduced to bring the TATO to the industry average, holding sales constant?

Represent 0.783 kg with SI units having an appropriate prefix Express your answer to three significant figures and include the appropriate units. P: A Value RO ? Units 0.783 kg

A speaker presenting information on two forms of exercise—running and walking—to help the audience choose which is better for them would most likely choose a \_\_\_\_\_.

Herrnstein and murray questioned whether poverty was a result of \_\_\_\_\_ conditions or whether it actually caused limited opportunities for children.

Which includes the physical characteristics of an organism?

What was one way the colonist rebelled to the British economic policies

Why is Southeast Asia considered a crossroads? (1) Large deposits of oil are available.

(2) A number of trade routes intersect.

(3) A single culture is dominant.

(4) Rivers serve as highways.

A seismogram shows that P waves travel \_\_\_\_\_.

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