

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Use the label below to answer question 1.

Nutrition Facts		
	Cereal (59 g)	Cereal with Nonfat Milk (250 mL)
Nutrient	% Daily Value*	% Daily Value*
Fat	2%	2%
Sodium	0%	3%
Potassium	6%	12%
Carbohydrate	16%	18%

\*Percent Daily Values are based on a 2000-Calorie diet. Your daily values may be higher or lower, depending on your Calorie needs.

- 1 According to this label, which nutrient is NOT found in cereal?
- A Fat  
B Sodium  
C Potassium  
D Carbohydrate
- 2 For an experiment in which you are determining the freezing point of an unknown chemical, you record the temperature every minute for 20 minutes. In this example, time is the —
- A control  
B dependent variable  
C independent variable  
D hypothesis
- 3 Rocks brought back from the moon weighed more on Earth than they did on the moon because Earth has a greater —
- A atmospheric pressure  
B density  
C gravitational force  
D magnetic field
- 4 A police detective has confiscated as evidence some chicken soup that he suspects might contain poison. Which type of chemist would *most* likely assist him in determining the contents of the soup?
- A Analytical chemist  
B Biochemist  
C Organic chemist  
D Physical chemist
- 5 Which of these chemicals does NOT occur in nature?
- A Ammonia  
B Chlorofluorocarbon  
C Fluorine  
D Ozone

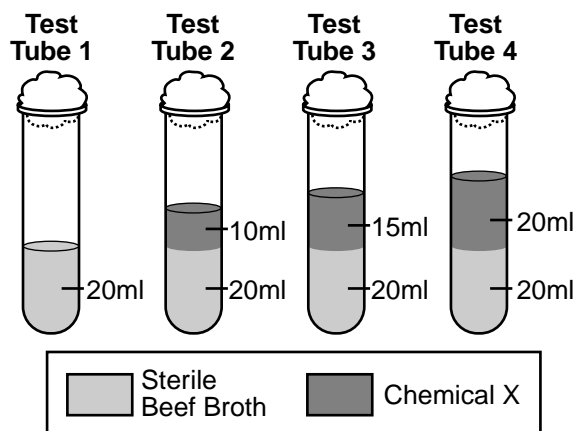
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- 6 In the chemistry lab, chemicals that you are finished working with should be —
- A poured into the sink
  - B returned to their original containers
  - C mixed together and dumped in a designated container
  - D disposed of as directed by your teacher

- 7 A scientist observes that the number of coyote sightings in suburban areas has increased over the last four years. In the process of forming a hypothesis as to why this number has increased, she would —
- A make a set of controlled observations
  - B decide which variables can be controlled
  - C pose a tentative hypothesis explaining what was observed
  - D analyze data to explain what was observed

- 8 Which of these pieces of laboratory glassware should NEVER be heated with a Bunsen burner?
- A Beaker
  - B Graduated cylinder
  - C Flask
  - D Test tube

- 9 Which of the following is an example of applied research?
- A Colliding nuclei to discover the smallest particles that make up matter
  - B Using the results of DNA profiling as evidence in a court of law
  - C Sending spacecraft to Mars to search for other life forms
  - D Testing chemicals to replace CFCs in air conditioners and refrigerators



- 10 A biochemist is performing an experiment to determine the effects of Chemical X on the growth of bacteria. Which is the control?
- A Test tube 1
  - B Test tube 2
  - C Test tube 3
  - D Test tube 4

