Lesson 3 Quiz

What Are Some Types of Investigations?

The chart shows the steps of a scientific method.

A Scientific Method

Form a hypothesis.

Develop a plan.

Test the hypothesis.

Analyze results.

Communicate results.

Which statement is **true** of this scientific method?

- (A) It should be considered a flexible guide.
- **B** It lists each step according to importance.
- C It is the only one that scientists use.
- The results should not be communicated if you don't like them.
- **2** Rosa conducts an experiment. Her results do not support her hypothesis. What should she do?
 - (F) Repeat the experiment to check for errors.
 - **G** Change the results to support the hypothesis.
 - (H) Discard the data because it does not agree with her hypothesis.
 - Try to make an experiment that will give her the results she wants.

- Models allow scientists to test things that might be too expensive or difficult to test using the real item. Which of the following would be an investigation that could use a model?
 - (A) whether a new spray will repel mosquitoes
 - **B** how many times per day a robin leaves her nest
 - how much weight can a new bridge support
 - (D) how much water a cubic meter of sand can hold
- A hypothesis must be testable. Which hypothesis is testable?
 - (F) Blue is the best color.
 - **G** Summer is nicer than fall.
 - (H) Dogs are better than cats.
 - A beagle can jump higher than a Persian cat.
- A scientific method is a way to investigate a scientific problem. Although the order of steps can vary, the tasks performed during each step often stay the same. During which step of the scientific method would a scientist collect data?
 - (A) developing a plan
 - (B) forming a hypothesis
 - (C) testing the hypothesis
 - **D** communicating the results