

Unit 1 *continued***Nature of Science**

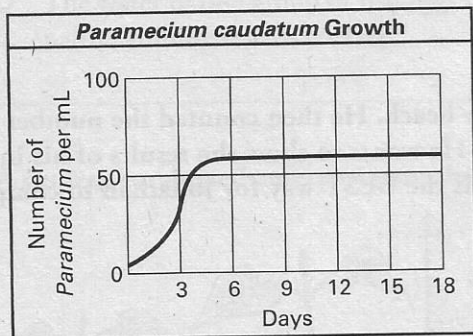
11. Which of the following hypotheses is testable?

- A Snails eat less food when their environment is dry.
 - B Snails have thoughts similar to that of earthworms.
 - C Snails become depressed when their environment is dry.
 - D Snails will evolve into organisms that only live in dry environments.
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12. Which of the following accurately describes a control group?

- A It requires a lead scientist who controls a group of scientists conducting an experiment.
 - B It is always registered with the Food and Drug Administration (FDA).
 - C It is the group in an experiment that receives no experimental treatment.
 - D It provides the answer to a problem posed by a theory.
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13. A biology class has been observing the population growth of the species *Paramecium caudatum* for 18 days. Food was occasionally added to the test tube in which the paramecia were grown. The data are shown in the graph below.



What is the carrying capacity of the test-tube environment as long as food is added?

- A about 10 paramecia
 - B about 50 paramecia
 - C about 65 paramecia
 - D about 100 paramecia
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