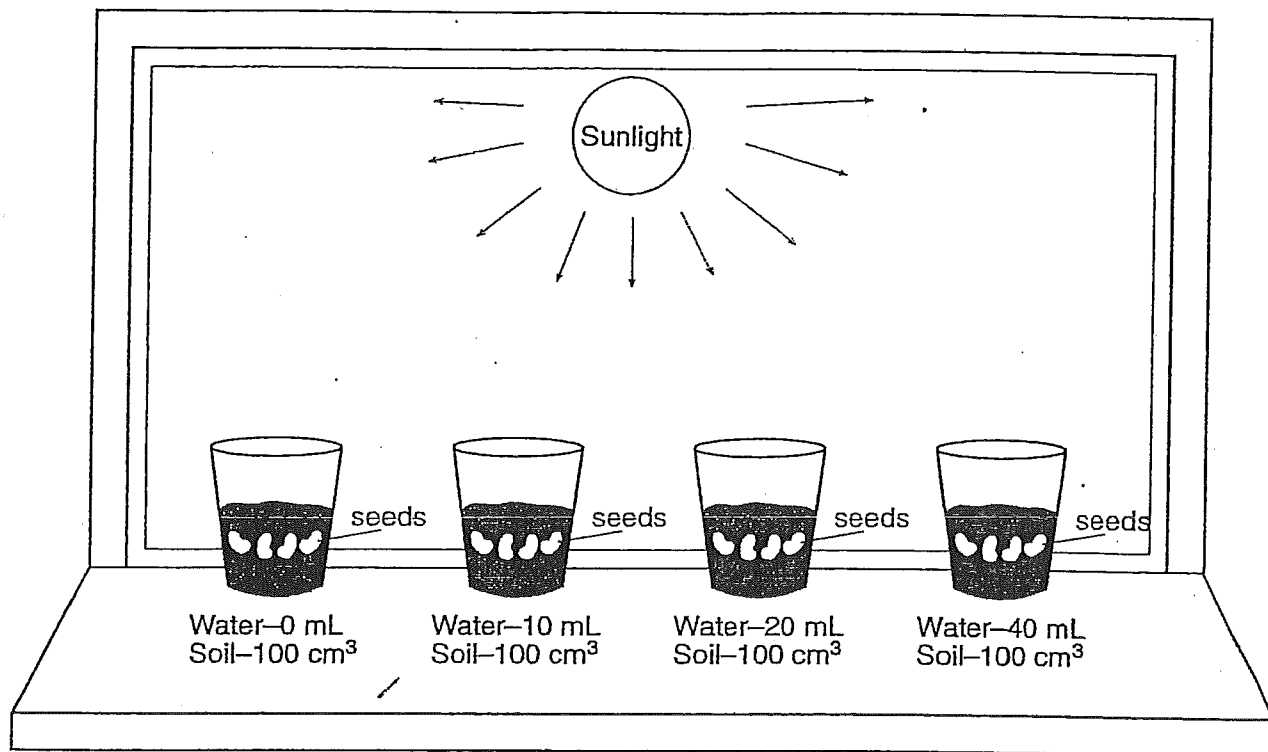


Base your answers to questions 65 and 66 on the information and on the diagram below.

A student set up the experiment below to learn about plant growth. The student added a different amount of water to four identical containers, each containing four seeds in 100 cubic centimeters of soil. All of the containers were placed in the same sunny location.



65 State a hypothesis being tested in this experiment. [1]

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66 a Identify *one* variable that is being held constant in this experiment. [1]

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b Explain why this variable needs to be held constant. [1]

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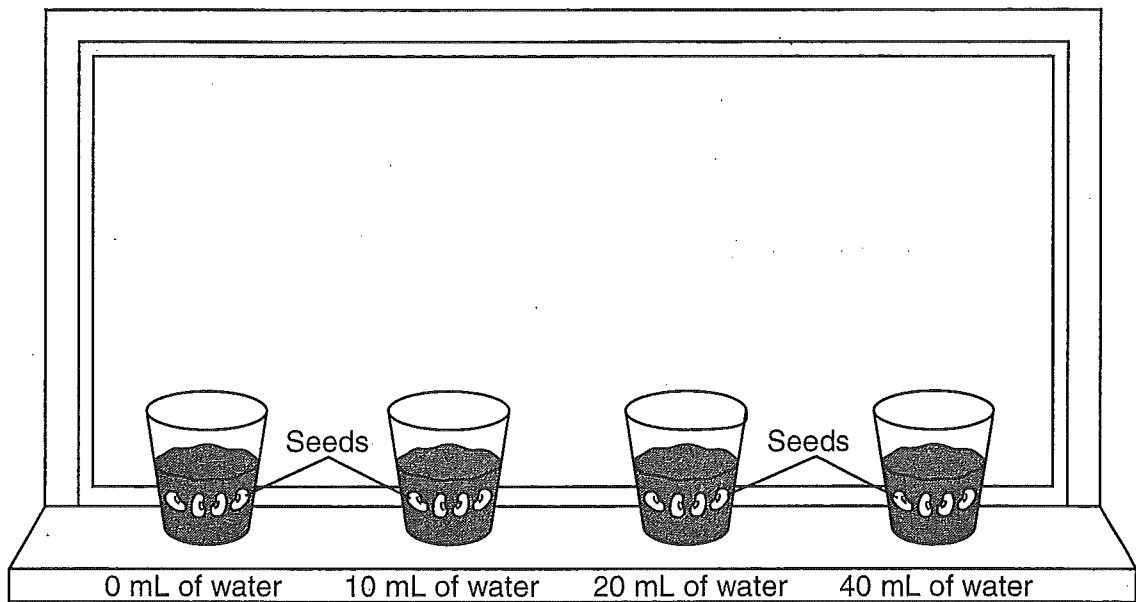
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## Part II

*Directions (46–85):* Record your answers in the space provided below each question.

Base your answers to questions 46 and 47 on the diagram below and on your knowledge of science. The diagram shows a controlled experiment designed to test how much time it takes for seeds to germinate under four different conditions. Four bean seeds were placed in each of four pots. Each pot contained 100 cubic centimeters ( $\text{cm}^3$ ) of soil. All four pots were placed on the same sunny windowsill. A different amount of water was placed in each pot.



46 Identify the independent (manipulated) variable in this experiment. [1]

\_\_\_\_\_

47 Identify *two* conditions shown in the diagram that are held constant in all four pots. [1]

(1) \_\_\_\_\_

(2) \_\_\_\_\_

\_\_\_\_\_