

Science

Answer Awareness

Learning Targets

1. Use the structure of the answer choices to avoid unnecessary precision or consideration.
2. Identify clues in the answer choices to save time and increase focus.

Instructions

Use Answer Awareness to answer the question.

Answer Awareness

The ACT is a multiple-choice test, so all of your options are right there on the page. The answers tell you what format is expected and how precise you need to be. If you answer a question with unnecessary precision, you waste time and effort.

Passage VI

A copper rod is heated on one end by a heat source (shown in Figure 1). A student begins a timer at the moment one end of the copper rod reaches 100° Celsius. He measures the time it takes the cool end of the copper rod, which begins at room temperature, to reach the temperature of the heat source. The results are recorded below in Figure 2.

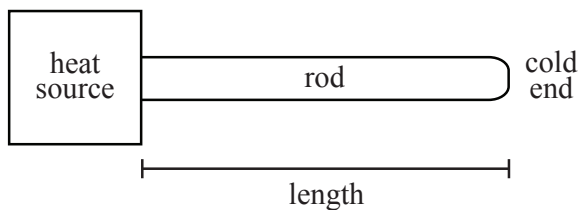


Figure 1

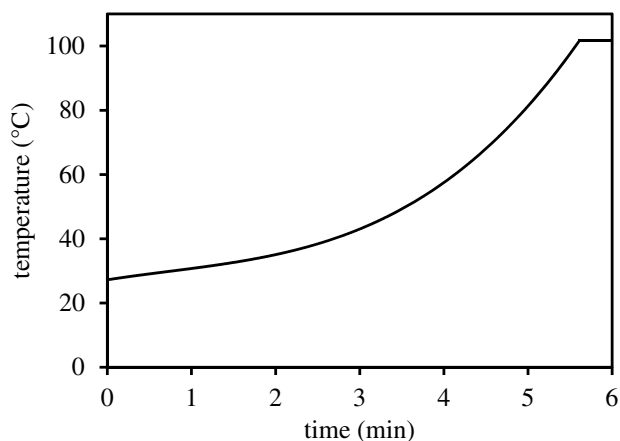


Figure 2

The student then removes the heat source from the now uniformly heated copper rod and records the time it takes for the entire copper rod to return to room temperature. The results are recorded below in Figure 3.

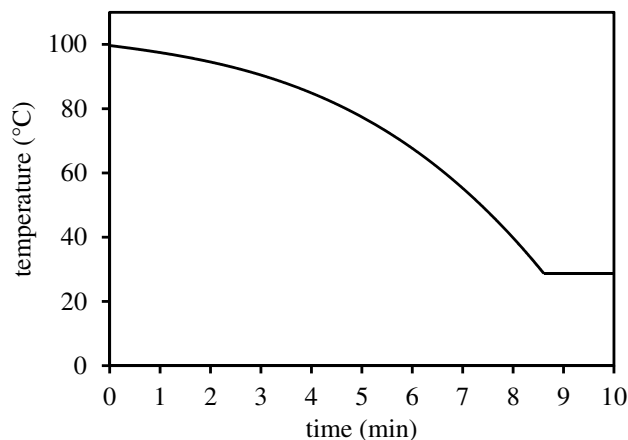


Figure 3

39. If the student were to remove the heat source from the end of the rod at $2\frac{1}{2}$ minutes and keep the heat source away for a total of 5 minutes before returning it to the rod, which of the following is most likely to be the time at which the cool end of the rod reaches the temperature of the heated end of the rod (including the time already elapsed)?
- A. Less than 10 minutes
 - B. Exactly 10 minutes
 - C. More than 10 minutes
 - D. This cannot be determined.