

Quiz

1. Which of the following questions would be considered “scientific”?
 - A) What is the effectiveness of this cancer-fighting drug?
 - B) Which religion is best?
 - C) Which painting is more attractive?
 - D) Which model is more attractive?
 - E) Which political party is best?
2. Which of the following are considered to be basic tenets of science?
 - A) objectivity.
 - B) measurability.
 - C) explanations are tentative.
 - D) a and b.
 - E) a, b, and c.
3. Your friend was recently cooking potatoes and wondered why cubed potatoes cook faster than whole potatoes. Your friend thinks that the water boils more quickly with the cubed potatoes. They devise an experiment. Four identical ceramic bowls are filled with equal amounts of water on four identical hotplates. A whole potato was placed in the first, halved potatoes in the second, a cubed potato in the third, and no potatoes in the final bowl. The container with the cubed potatoes boils first and your friend concludes that his hypothesis was correct. What is wrong with this scenario?

Choose all that apply.

- A) Potato size was not standardized.
- B) There were not enough replicates of the experiment.
- C) There were too many uncontrolled variables.
- D) There was no control in the experiment.
- E) The question posed by your friend is not testable using scientific inquiry.