

## Scientific Inquiry, 4-1

4-1.1

1. If your teacher asked you to make *qualitative* observations about the class's pet hamster, which group of words might be used?

- A mass of 3 kg, 11 cm long, age of 16 months
- B mass of 3 kg, 11 cm long, cute
- C long hair, white and brown colored, soft
- D temperature, length, weight

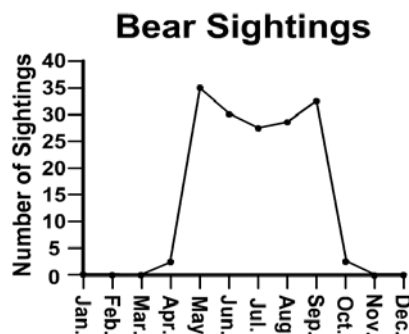
4-1.1

2. Hunter makes an observation during the class science investigation. He writes, "The substance reached a temperature of 100° C." What type of observation has Hunter made?

- A qualitative
- B quantitative
- C inference
- D classification

4-1.1

3. The chart below shows the number of bear sightings in Yellowstone National Park during one year. This data was collected by using —



- A quantitative observations.
- B hypothesis observations.
- C qualitative observations.
- D variable observations.

4-1.7

**96. The fourth graders are planning for the science fair. Davis wants to explore making smoke rings. His materials include an empty soup can with a hole punched in the bottom, pieces of paper for fuel, and a lighter. What should Davis consider before performing his experiment?**

- A Make sure to use the biggest can available.
- B Colored paper might be better than white paper.
- C Paper will be difficult to burn.
- D Only burn materials with adult supervision.

4-1.7

**97. The class science activity for the week involves listening to pre-recorded tapes. Each member of the class takes a turn with tape players and headphones. How could this activity possibly cause harm to the students?**

- A Listening to tapes is not good for your focus in class.
- B Playing the tapes too loud may cause hearing loss.
- C Headphones can make your ears sore.
- D Tape recorders are out of date for science experiments.

4-1.7

**98. During a science activity, a student drops and breaks a light bulb. What should be done next?**

- A notify the teacher about the broken bulb
- B tape the bulb back together with electrical tape
- C continue with the science activity
- D clean up the glass and put it in the trash

4-1.7

**99. The class is conducting an investigation that allows them to visualize the magnetic field. The materials needed are:**

- |  |
|--|
| <ul style="list-style-type: none"><li>• Magnet</li><li>• Construction paper</li><li>• Iron filings</li></ul> |
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**What important safety equipment has been left out?**

- A paper towels to clean up spills
- B gloves to protect the hands
- C masks to protect the nose
- D goggles to protect the eyes