




Name _____ Class _____ Date _____

- 1 **Cause:** A pan of water was placed on the hot stove.
Effect: _____
- 
- A The water in the pan cooled down.
 - B The water in the pan turned red.
 - C The water in the pan spilled on the floor.
 - D The water in the pan began to boil.

- 3 Emma was conducting an experiment to determine the length of time it would take dough to rise above the loaf pan it was in. As she made the dough, Emma added **salt to pan B**, **water to pan C**, and **baking soda to pan D**. She did not add anything to pan A. Which pan was the **controlled** variable?

- 2 A(n) _____ is the **variable** that is **being observed** during an experiment.
- A restricted variable
 - B dependent variable
 - C independent variable
 - D controlled variable



- 4 Which tool is used to **observe things closer** and in **more detail**?
- A a thermometer
 - B a spring scale
 - C a hand lens
 - D a ruler



PREVIEW

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- 7
- A a thermometer
 - B a campfire
 - C a gas grill
 - D a hot plate



- 10
- A a computer
 - B a calculator
 - C binoculars
 - D a graduated cylinder



- 9 Jerry was conducting an experiment and accidentally **spilled baking powder** all over his lab table. **To be safe**, what **should Jerry do next**?
- A finish his experiment
 - B clean up the spill right away
 - C clean up the spill after school
 - D move to a different lab table



- 10 What is the **most** important item students **should wear** while they are conducting a science experiment?

- A a headband
- B a visor
- C glasses
- D safety goggles





ANSWER KEY

Cause: A pan of water was placed on the hot stove.



Effect: _____

- A** The water in the pan cooled down.
- B** The water in the pan turned red.
- C** The water in the pan spilled on the floor.
- D** The water in the pan began to boil.

(d)

A(n) _____ is the **variable** that is being **observed** during an experiment.

- A** restricted variable
- B** dependent variable
- C** independent variable
- D** controlled variable



(b)

Emma was conducting an experiment to determine the length of time it would take dough to rise above the loaf pan it was in. As she made the dough, Emma added **salt to pan B**, **water to pan C**, and **baking soda to pan D**. She did not add anything to pan A. Which pan was the **controlled** variable?

Which tool is used to **observe things closer** and in **more detail**?

- A** a thermometer
- B** a spring scale
- C** a hand lens
- D** a ruler



(a)

(c)

- A** A
- C** C



PREVIEW

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- A** a thermometer
- B** a campfire
- C** a gas grill
- D** a hot plate



- B** a calculator
- C** binoculars
- D** a graduated cylinder



Jerry was conducting an experiment and accidentally **spilled baking powder** all over his lab table. **To be safe, what should Jerry do next?**

- A** finish his experiment
- B** clean up the spill right away
- C** clean up the spill after school
- D** move to a different lab table



(b)

What is the **most** important item students **should wear** while they are conducting a science experiment?

- A** a headband
- B** a visor
- C** glasses
- D** safety goggles



(d)