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Pretest - Science

1. Three of your friends want to see who can throw a Frisbee the farthest.



Each person throws a Frisbee in the same direction, from the same place. But your friends argue that the size, shape, and weight of the different Frisbees are giving unfair results.

Which of the following would give the fairest results?

- ☐ A. everyone throwing the same Frisbee
 - ☐ B. everyone throwing a Frisbee of the same shape and weight
 - ☐ C. everyone throwing the Frisbee of their choice
 - ☐ D. everyone throwing a Frisbee of the same size and shape
-

Physical Properties of Matter

2. A substance takes the shape of its container, expands to fill the container, and can flow easily. Which of the following states is the substance most likely in?

- ☐ A. There is not enough information to determine this.
- ☐ B. The substance is most likely in the liquid state.
- ☐ C. The substance is most likely in the solid state.

- ☐ D. The substance is most likely in the gas state.
-

Physical Properties of Matter

3.



What can you tell about the properties of solid water from looking at the ice in the drink glass above?

- ☐ A. Each piece of solid water takes the shape of its container.
- ☐ B. Solid water tastes different than liquid water.
- ☐ C. Solid water has its own shape.
- ☐ D. Solid water is not as cold as liquid water.
-

Physical Properties of Matter

4. The hat shown below feels soft and fuzzy.



Which of these things would go in the same group as the hat, based on its texture?



W.



X.



Y.



Z.

- ☐ A. Y
 - ☐ B. W
 - ☐ C. Z
 - ☐ D. X
-

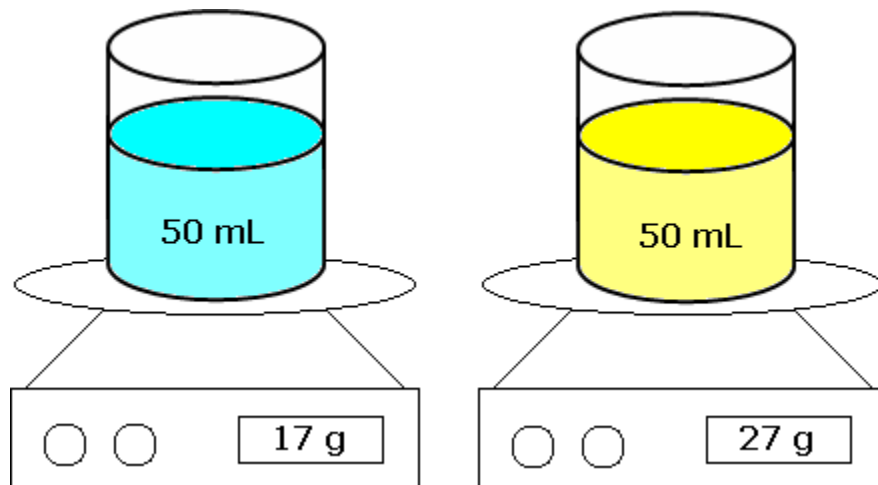
Pretest - Science

5. Raul conducted an experiment. Then, he repeated the experiment several times. How did repeating the experiment affect Raul's conclusion?

- ☐ A. It showed Raul's conclusion was probably wrong. The equipment became worn out, so the data obtained from it cannot be trusted.
 - ☐ B. Raul was able to form a conclusion that was supported by reliable data.
 - ☐ C. Raul's conclusion was not affected when he repeated the experiment. It just took longer for him to complete the experiment.
 - ☐ D. It showed Raul's conclusion could not be trusted. He must have repeated the experiment because he kept making mistakes.
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Physical Properties of Matter

6. Jake did an experiment in his science class. He filled up two beakers with different liquids and measured the volume and mass of each.



Which of the following conclusions could Jake have found?

- ☐ A. The liquids have the same volume and the same mass.
 - ☐ B. The liquids have different volumes and different masses.
 - ☐ C. The liquids have the same volume and different masses.
 - ☐ D. The liquids have different volumes and the same mass.
-

Pretest - Science

7. Which of the following is a form of water in its solid state?

- ☐ A. hail
 - ☐ B. clouds
 - ☐ C. rain
 - ☐ D. fog
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Pretest - Science

8. Dinosaurs are extinct organisms that lived millions of years ago. How are scientists able to learn anything about them?

- ☐ A. by studying fossils

- ☐ B. by studying erosion
 - ☐ C. by studying ores
 - ☐ D. by studying volcanoes
-

Physical Properties of Matter

9. Look at the photo of the penny below.



Which of the following descriptions best matches the penny?

- ☐ A. The object is hard, small, denser than lead, and has no smell.
 - ☐ B. The object is round, made of copper, slightly bumpy, and a little less than an inch wide.
 - ☐ C. The object is round, metallic, and weighs about a half a pound.
 - ☐ D. The object is a sphere, orange in color, cold, and about an inch in thickness.
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Pretest - Science

10. Which of the following may be a sign that a chemical change has occurred?

- I. Bubbles form.
- II. There is a color change.
- III. There is a temperature change.

- ☐ A. II & III only
 - ☐ B. I & II only
 - ☐ C. I & III only
 - ☐ D. I, II & III
-

Physical Properties of Matter

11.



W.



X.



Y.



Z.

Which picture shows something that is flexible?

- ☐ A. Z
 - ☐ B. Y
 - ☐ C. W
 - ☐ D. X
-

Pretest - Science

12. Condensation occurs in the water cycle when

- ☐ A. clouds form in the atmosphere.
 - ☐ B. drops of water fall from the clouds.
 - ☐ C. puddles of water on the ground get smaller.
 - ☐ D. small streams flow into larger rivers.
-

Physical Properties of Matter

13. Which of the following does not change shape or volume when it is moved from one container to another?

Assume the container is sealed.

- ☐ A. a liquid
 - ☐ B. a solid
 - ☐ C. a gas
 - ☐ D. all of these
-

Pretest - Science

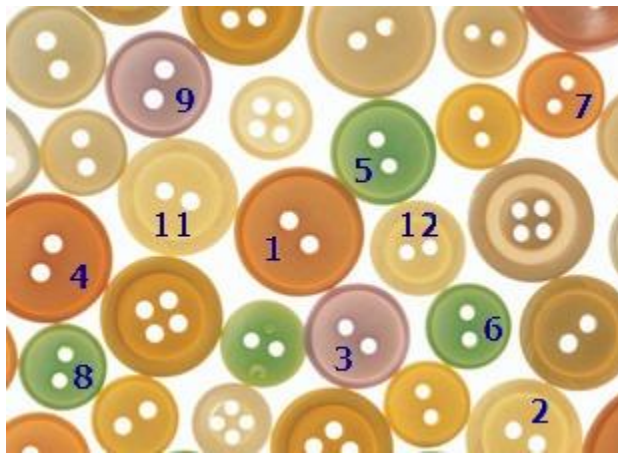
14. Sounds are produced when objects, or some part of them, begin to vibrate. The sound made by an object changes when the speed of vibration changes.

If a vibrating object begins to vibrate even faster, what will happen to the sound's pitch?

- ☐ A. It will have a higher pitch.
 - ☐ B. It will have a lower pitch.
 - ☐ C. The pitch will stay the same.
 - ☐ D. It will have no pitch.
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Physical Properties of Matter

15.



Which of the following groups contains buttons that are all different colors?

- ☐ A. 4, 1, 7
 - ☐ B. 5, 8, 6
 - ☐ C. 1, 8, 3
 - ☐ D. 11, 12, 2
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