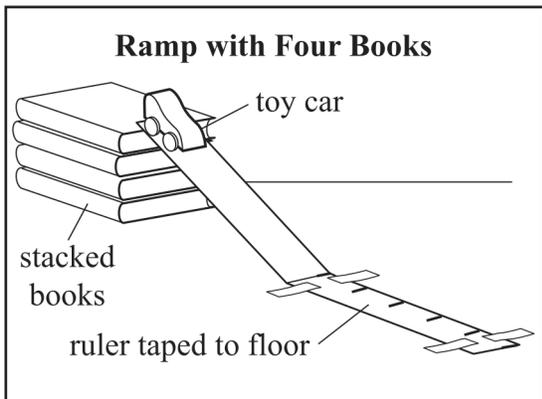
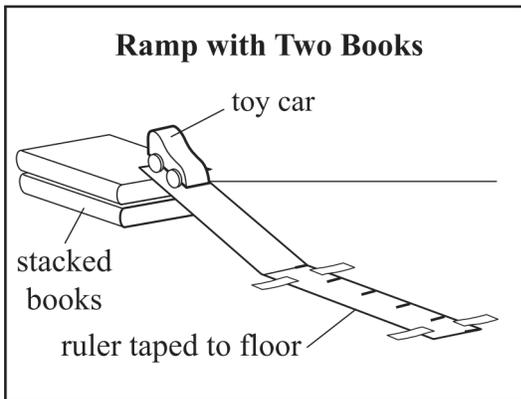


Name: _____

Date: _____

1. Students want to know which ramp makes a toy car travel the greater distance on the floor. The students roll a toy car down each ramp one time.



They measure how far the toy car rolls on the floor. Which additional tests will produce results that can be *most* trusted?

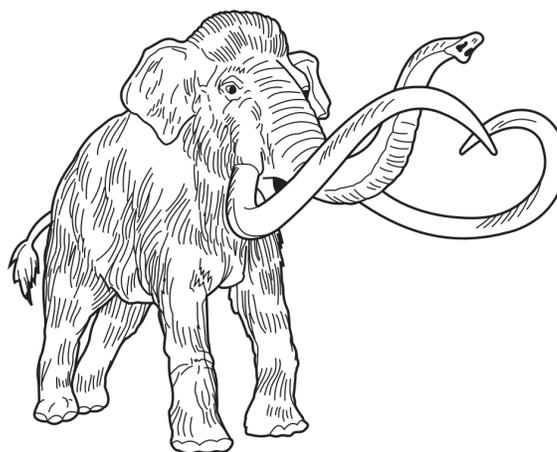
- A. Roll the same toy car down each ramp two times.
- B. Roll the same toy car down each ramp five times.
- C. Roll five different toy cars down the ramp with two books, two times.
- D. Roll five different toy cars down the ramp with two books, five times.

2. The tracks below were made by a dinosaur.



Scientists can conclude by studying these tracks that this dinosaur

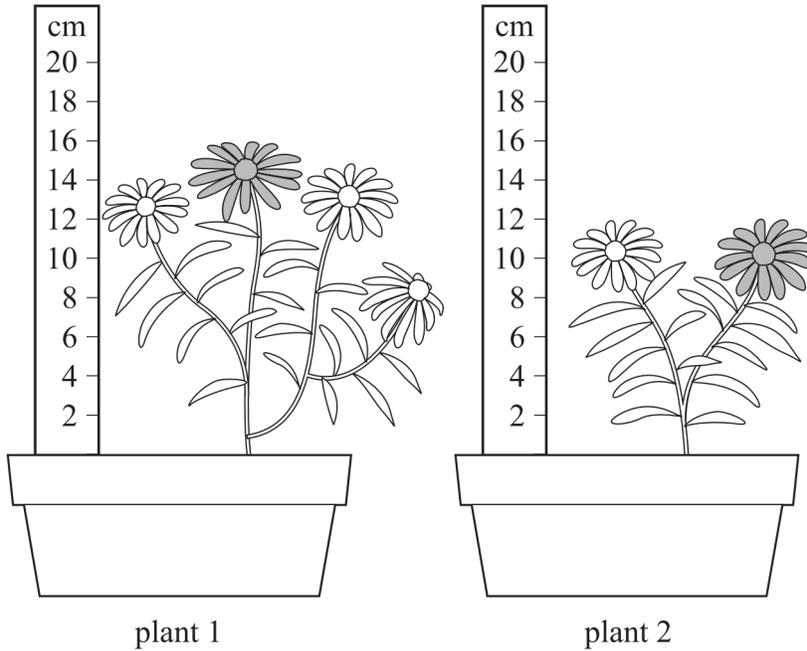
- A. could not fly.
 - B. could not swim.
 - C. walked using one leg.
 - D. walked using two legs.
3. An extinct animal called a mammoth is shown below.



Which statement is an observation about the mammoth?

- A. The mammoth was related to the elephant.
- B. The mammoth was a slow-moving animal.
- C. The mammoth's tusks were used for protection.
- D. The mammoth's tusks were curved and pointed.

4. Students are studying the growth of the two plants shown below.



They are preparing a report about these plants. Which data table should be in their report?

A. **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	14	19	3
2	8	15	1

B. **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	16	19	4
2	12	15	2

C. **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	16	10	4
2	12	8	2

D. **Growth of Plants**

Plant	Height (cm)	Number of Leaves	Number of Flowers
1	14	10	3
2	8	8	1

5. A person catches and measures a large fish called a halibut. She thinks that this halibut is above average in size. To help support her thinking, it would be *most* helpful to measure

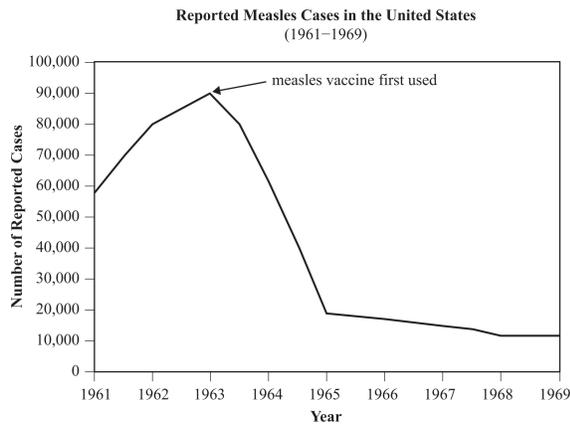
- A. many types of fish.
- B. many fish of the same type.
- C. fish from the same location.
- D. fish during a different season.

6. A scientist is performing an experiment to determine the melting point of a new substance. Which action could increase the likelihood of obtaining accurate results?

- A. repeating the experiment three times
- B. experimenting with multiple substances
- C. writing out the procedure after the experiment
- D. using three types of thermometers in the experiment

7. Repeating experiments improves the likelihood of accurate results because the overall results are
- less likely to prove the hypothesis correct.
 - more likely to prove the hypothesis correct.
 - less likely to be correct due to fewer errors being made.
 - more likely to be correct due to fewer errors being made.

8. The graph below shows the number of measles cases reported for many years.

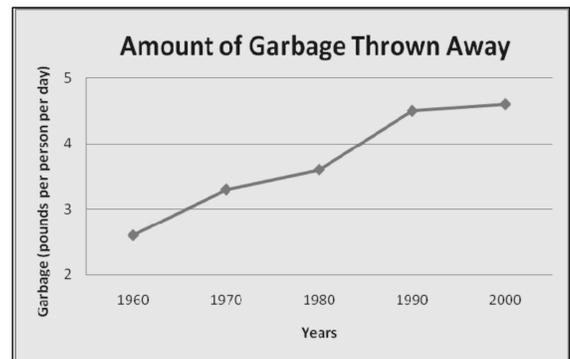


Which statement is supported by the information in this graph?

- The vaccine was responsible for eliminating measles after 1965.
- The vaccine was not needed to develop natural immunity to measles.
- The vaccine was not given after 1968 because there were few measles cases reported.
- The vaccine was responsible for reducing the number of cases of measles in the United States.

9. Students want to test how the temperature changes each day throughout the year. Which of the following does *not* have to be kept the same during the test?
- the place where the temperature is measured
 - the thermometer used to take the measurement
 - the person reading the temperature measurement
 - the time of day when the temperature is measured

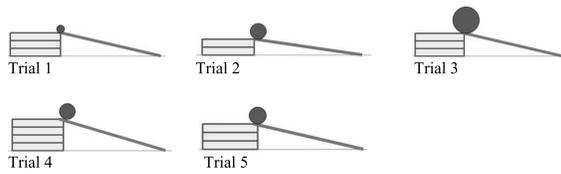
10. A scientist wanted to see if the amount of garbage that Americans threw away changed over time. He collected information and then showed his results in the graph below.



Based on this graph, what could the scientist say about the amount of garbage that each person threw away?

- It increased over time.
- It decreased over time.
- It increased the most in 1980.
- It decreased the most in 1990.

11. The diagrams below show five different tests Linda carried out using steel balls of three different sizes and masses. She used the same ramp for all trials.



Linda wants to test this idea: if the ramp is placed higher, the ball will travel to the bottom of the ramp faster. Which three trials should Linda compare to test this idea?

- A. Trials 1, 2, and 3 B. Trials 1, 3, and 5
 C. Trials 2, 3, and 4 D. Trials 2, 4, and 5
12. Which graphic representation would be the *best* way for Linda to display data from the three trials she tested?

- A. histogram B. line graph
 C. double bar graph D. stem and leaf plot

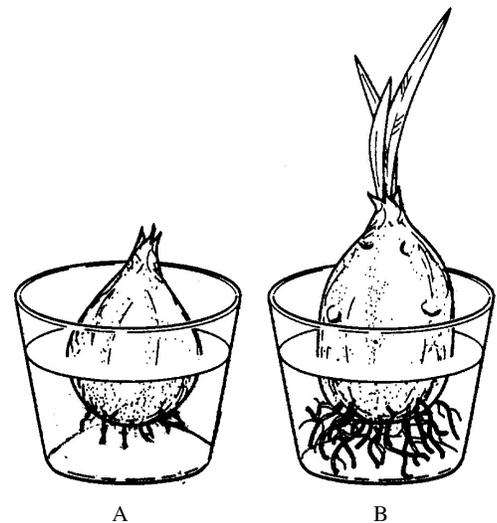
13. Three pieces of clay are launched from a spoon launcher. Each piece of clay is a different size. Study the table below which shows the distances the pieces of clay traveled.

Distances Pieces of Clay Traveled (centimeters)

Clay Sizes	Trial 1	Trial 2	Trial 3	Average Distance Traveled
Small	76 cm	80 cm	84 cm	80 cm
Medium	50 cm	42 cm	46 cm	46 cm
Large	8 cm	16 cm	12 cm	12 cm

Write *one* conclusion that is supported by the results shown in the table.

14. Look at the flower bulbs below. What two pieces of evidence can you observe that shows that bulb B is older than bulb A?



1.
Answer: B
2.
Answer: D
3.
Answer: D
4.
Answer: B
5.
Answer: B
6.
Answer: A
7.
Answer: D
8.
Answer: D
9.
Answer: C
10.
Answer: A
11.
Answer: D
12.
Answer: B
13.
Answer:
14.
Answer: Plant B has more roots; Plant B has
leaves; Plant A does not have a stem yet