Student name:\_\_\_\_\_\_\_\_\_\_

**1)** The first step of the scientific method is making observations.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**2)** The final step in the scientific method is data analysis.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**3)** In the metric system, a gram (g) is a unit of mass.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.01 Convert English measurements to the metric system, and vice versa.  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**4)** According to the hypothesis you tested in this experiment, the ratio of a person's upper limb length to body height is approximately 50%.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.02 Calculate expected upper limb length and actual percentage of height from re  
Topic : Scope of anatomy and physiology  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**5)** When drawing a graph to display experimental data, the independent variable is plotted along the x-axis.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 03. Apply  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**6)** When conducting an experiment to test a hypothesis, only one changeable factor is studied; this is called a variable.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**7)** When plotting data on a graph, drawing the line of best fit involves placing all of the data points on the line.

⊚ true  
 ⊚ false

**Question Details**Bloom's : 03. Apply  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
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**8)** Which step of the scientific method involves forming a tentative explanation of information?

A) Hypothesis   
 B) Observations  
 C) Conclusion  
 D) Experiment  
 E) Data analysis

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
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**9)** In the metric system, 1 cm is equal to \_\_\_\_\_\_\_\_\_\_ mm.

A) 100   
 B) 1,000  
 C) 0.1  
 D) 10  
 E) 0.01

**Question Details**Bloom's : 03. Apply  
Learning Outcome : 01.01 Convert English measurements to the metric system, and vice versa.  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**10)** The difference between an independent variable and a dependent variable is that the dependent variable

A) can be changed.   
 B) is derived from the experimental results.  
 C) is determined before the experiment is conducted.  
 D) is equivalent to the hypothesis.  
 E) is equivalent to the observations.

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**11)** In the metric system, a liter (L) is a unit that measures

A) mass.   
 B) time.  
 C) length.  
 D) temperature.  
 E) volume.

**Question Details**Bloom's : 01. Remember  
Learning Outcome : 01.01 Convert English measurements to the metric system, and vice versa.  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**12)** Which of the following is NOT a component of the scientific method?

A) Conclusions   
 B) Experiment  
 C) Theory  
 D) Hypothesis  
 E) Observations

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
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Gradable : automatic

**13)** Which component of the scientific method involves organizing results as tables, graphs, or drawings?

A) Conclusions   
 B) Observations  
 C) Data analysis  
 D) Experiment  
 E) Theory

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**14)** Knowing that there are 2.54 cm per inch, a person that is 5'5" in height would be \_\_\_\_\_\_\_\_\_\_ cm tall.

A) 16.51   
 B) 165.1  
 C) 25.4  
 D) 25.6  
 E) 255.9

**Question Details**Bloom's : 03. Apply  
Learning Outcome : 01.01 Convert English measurements to the metric system, and vice versa.  
Topic : Scientific method  
Activity Type : New  
Accessibility : Keyboard Navigation  
Gradable : automatic

**15)** An important feature of a hypothesis is that it has to be \_\_\_\_\_\_\_\_\_\_.

A) a known fact   
 B) true  
 C) a widely accepted theory  
 D) false  
 E) testable

**Question Details**Bloom's : 02. Understand  
Learning Outcome : 01.03 Apply the scientific method to test the validity of a hypothesis concerning  
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Gradable : automatic

**Answer Key**Test name: Lab Exercise 01

1) TRUE

2) FALSE

3) TRUE

4) FALSE

5) TRUE

6) TRUE

7) FALSE

8) A

9) D

10) B

11) E

12) C

13) C

14) B

15) E