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Lab Manual for Human Anatomy and Physiology, 4e (Martin) Chapter 1 Scientific Method and Measurements

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

Answer: TRUE

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

- 2) Which step of the scientific method involves forming a tentative explanation of information?
- A) Hypothesis
- B) Observations
- C) Conclusion
- D) Experiment
- E) Data analysis

Answer: A

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

3) In the metric system, 1 cm is equal to mm.

A) 100

B) 1,000

C) 0.1

D) 10

E) 0.01

Answer: D

Topic: Scientific method

Bloom's: 3. Apply

Learning Outcome: 01.01 Convert English measurements to the metric system, and vice versa.

Activity Type: New

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

Answer: FALSE

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

- 5) 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.

Answer: B

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

- 6) In the metric system, a liter (L) is a unit that measures
- A) mass.
- B) time.
- C) length.
- D) temperature.
- E) volume.

Answer: E

Topic: Scientific method Bloom's: 1. Remember

Learning Outcome: 01.01 Convert English measurements to the metric system, and vice versa.

Activity Type: New

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

Answer: TRUE

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.01 Convert English measurements to the metric system, and vice versa.

Activity Type: New

Accessibility: Keyboard Navigation

- 8) Which of the following is NOT a component of the scientific method?
- A) Conclusions
- B) Experiment
- C) Theory
- D) Hypothesis
- E) Observations

Answer: C

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

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

Answer: FALSE

Topic: Scope of anatomy and physiology; Scientific method

Bloom's: 2. Understand

Learning Outcome: 01.02 Calculate expected upper limb length and actual percentage of height

from recorded upper limb lengths and heights.

Activity Type: New

- 10) 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

Answer: C

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

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

Answer: TRUE

Topic: Scientific method

Bloom's: 3. Apply

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

12) 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

Answer: B

Topic: Scientific method

Bloom's: 3. Apply

Learning Outcome: 01.01 Convert English measurements to the metric system, and vice versa.

Activity Type: New

- 13) 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

Answer: E

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

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

Answer: TRUE

Topic: Scientific method Bloom's: 2. Understand

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New

Accessibility: Keyboard Navigation

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

Answer: FALSE

Topic: Scientific method

Bloom's: 3. Apply

Learning Outcome: 01.03 Apply the scientific method to test the validity of a hypothesis concerning the direct, linear relationship between human upper limb length and height.

Activity Type: New