Student name:_____

In a good experimental design to get the best results, the number of confounding variables will be _____.

limited

increased

Given the following set of numbers, calculate the mean.

25, 98, 32, 46, 22, 87, 34, 26, 15

42.8

192.5

250.0

385.0

Given the following set of numbers, find the range.

25, 98, 32, 46, 22, 87, 34, 26, 15

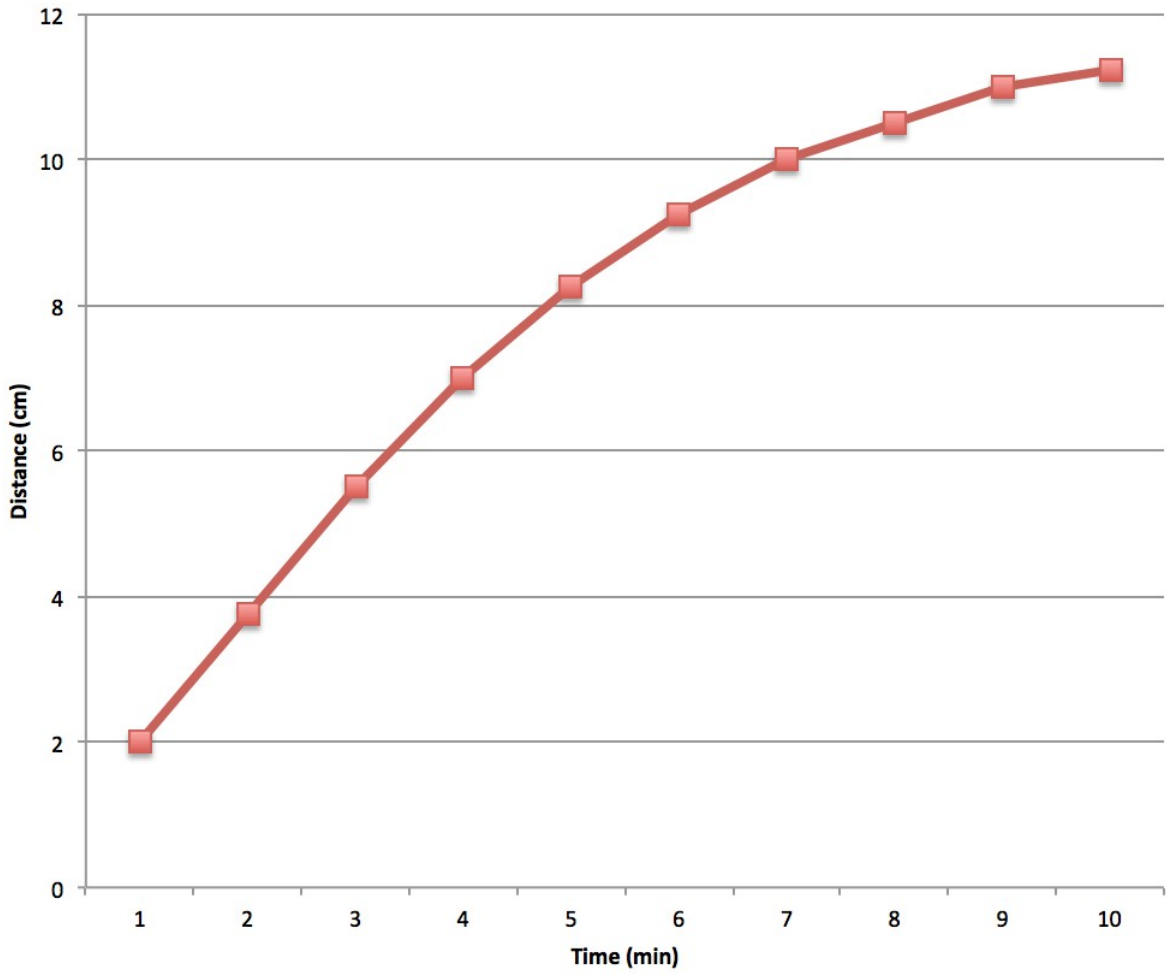
38

42

83

385

In the graph, describe the relationship between distance traveled and time during the first three minutes.



Curved and increases over time

Curved and decreases over time

Linear and increases over time

Linear and constant

Which of the following units is used to measure volume?

Meters

Kilograms

Centigrade

Liters

You have a piece of dialysis tubing that is 8 inches long. How many centimeters long is the piece of tubing?

3 cm

10.8 cm

15 cm

20.3 cm

You are weighing a 160-lb patient. How many kilograms does the patient weigh?

35 kg

72 kg

352 kg

1160 kg

The boiling point of water is 100°C. What is the boiling point in Fahrenheit?

37°F

100°F

137°F

212°F

A patient's temperature is 99.6°F. What is the patient's temperature in Celsius?

32°C

37.6°C

67.6°C

98.4°C

An instrument that resembles tweezers and is used to grasp objects is a_____.

blunt probe

forceps

hemostat

scalpel

scissor

Which of the following items are described in the lab manual as "hazardous waste"?

Broken glass

Cotton swab

Fresh tissue

Lab chemicals

Paper towels

Which of the following is the correct waste receptacle for scalpel blades?

Hazardous waste bag

Sharps container

Wastebasket

Which of the following statement(s) is/are true of formalin and phenol?

Formalin and phenol are potentially hazardous chemicals.

It is not necessary to wear gloves and eye protection when working with formalin and phenol.

Seek medical attention if irritation persists following exposure to formalin and phenol.

Skin and eyes should be rinsed immediately if exposed to formalin and phenol.

When changing a scalpel handle's blade, it is best to grab the scalpel blade with hemostats.

true

false

Scalpels are appropriate for all types of dissection.

true

false

Lifting the tissue with forceps or hemostats and cutting with the tip of the scalpel is the best way to avoid damage to the underlying tissue when using sharp dissection techniques.

true

false

When is the open scissors technique preferred?

When cutting tough tissues such as skin

When trying to preserve blood vessels and nerves

When exposing deep tissue such as bone

Blunt dissection is designed to separate tissues without damaging delicate structures.

true

false

A scientist designs an experiment to test the effect of body weight on the risk of developing type II diabetes mellitus. What is the independent variable in this experiment?

Development of type II diabetes mellitus

Body weight

Diet

A scientist designs an experiment to test the effect of body weight on the risk of developing type II diabetes mellitus. What is the dependent variable in this experiment?

Development of type II diabetes

Body weight

Type of diet

You have just finished dissecting a fresh cow bone as part of the day's laboratory activities. What is the most appropriate way to dispose of this waste?

Trash can

Sharps container

Buried in the backyard

Hazardous waste bag

You observe a classmate wearing open-toed shoes during a human dissection. The student accidentally spills some unknown fluid from "inside" the human dissection directly on their skin. What steps would you recommend that the student take to address the chemical exposure?

Call emergency services immediately.

Rinse the area immediately with water.

Caution them to watch the area for further irritation.

Cover the area with a bandage.

You are dissecting the wing of a chicken, and the skin is held tight to the bones beneath it. You would like to remove the skin, but while doing so you would like to preserve the bone, nerve, and muscle beneath the skin. Which tools would work best to accomplish this task?

Blunt probe

Scissors

Forceps

Dissecting pin

Dissecting needle

Answer Key

Test name: Ch1 Post-Lab_Anatomy and Physiology_4e

A

A

C

The range is simply the difference between the highest and lowest values, and is calculated by subtracting the lowest value from the highest value.

C

D

D

B

D

To convert degrees Celsius to degrees Fahrenheit:

$$°F = ((°C \times 9) / 5) + 32$$

To convert degrees Fahrenheit to degrees Celsius:

$$°C = ((°F - 32) \times 5) / 9$$

B

B

[A, C, D]

B

[A, C, D]

TRUE

FALSE

TRUE

B

TRUE

B

A

D

Fresh tissue should always be disposed of in a hazardous waste bag.

[B, C]

[A, B, C]