When considering nomenclature for scientific names, what is the difference between the two primates, *Homo sapiens* and *Homo erectus*?
A. One is a primate but the other is not.
B. They are animals of a different kingdom.
C. They are animals of a different order.
D. They are animals of a different species.
E. They are animals of a different genus.

Proteins are largely responsible for the traits of living organisms while _____ provides the blueprint for the organization, development and function of living things.
A. DNA
B. protein
C. carbohydrate
D. lipid
E. metabolite

In the periodic table, the value that refers to the number of protons and neutrons is:
A. atomic mass.
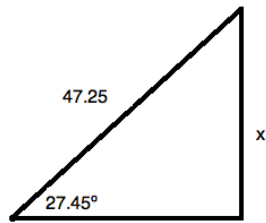B. molecular molarity.
C. atomic molarity.
D. molecular number.

Solve $\frac{x+2}{5} \geq \frac{x-2}{5}$

A. All real numbers
B. $x \geq 2$
C. $x \leq 2$
D. Empty set

$1 + \tan^2 x =$

A. $\cos^2 x$
B. $\cot^2 x$
C. $\csc^2 x$
D. $\sec^2 x$

1. Find x

a) 38.52   **b) 21.78**   c) 41.93   d) 31.31

What would be the displacement of a particle moving in a circular path of radius r after a displacement of half a circle?
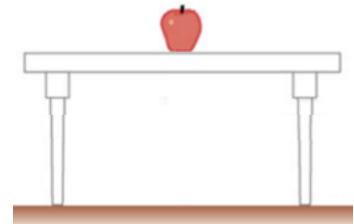
a. $2\pi r$
b. πr
c. 2r
d. Zero

A stone is thrown over the edge of a cliff that is 50 meters high. It is thrown horizontally with an initial velocity of 15.0 m/s. At what time after the stone was thrown it strikes the ground at the bottom of the cliff.

a. 102 seconds
b. 0.33 seconds
c. 3.19 seconds
d. 3.33 seconds

An apple sits at rest on a table, in equilibrium. If the weight (W) of the apple is action, the reaction is the:

a. Force of the apple excreted on the table
b. Force of the apple excreted on the Earth
c. Force of the table on the apple
d. Force of the Earth on the apple

What is the molecular weight of **KrF$_2$** in **amu**?

A. 122.8   B.   54   C.   74   D.   103.8

Which one of the following **element** symbols and names is **not correctly matched**?

A. P, potassium   C.   Cu, copper
B. Fe, iron   D.   Br, bromine

How many **electrons** are there in $^{32}S^{2-}$?
A. 2 electrons   C.   34 electrons
B. 16 electrons   **D.   18 electrons**