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TOSS-UP

- Marithle Mar Hr ' & PR 1) LIFE SCIENCE Multiple Choice Vestigial (pronounced VES-ti-gee-al) structures:
 - W) have no known function in their present owners
 - X) function in an analogous fashion in all species
 - Y) evolve homologously until functional
 - Z) control nervous system functions

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ANSWER: W) HAVE NO KNOWN FUNCTION IN THEIR PRESENT OWNERS

BONUS. M

1) LIFE SCIENCE Short Answer Mallus ioeusis and Mallus sylvestris are the genera and species of what common tree?

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ANSWER: APPLE

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Y.

Y.

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TOSS-UP

- Marithus Market 18 180 2) PHYSICAL SCIENCE Multiple Choice What is the decibel scale most often used to measure?
- W) size of bells
- X) magnitude of hurricanes
- Y) loudness of a sound
- Z) brightness of lights

ANSWER: Y) LOUDNESS OF A SOUND

BONUS

46) PHYSICAL SCIENCE Multiple Choice What is the name of the lowest energy subshell of Marithia Mark 13 an atom where electrons are found:

Millute Mark 13 198

- W) s
- X) p
- Y) d
- Z) a

ANSWER: W) S

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- 3) EARTH SCIENCE Multiple Choice Which of the following are the highest of the clouds in the troposphere and are composed entirely of ice crystals:
 - W) stratus
 - X) cirrus

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- Y) cumulus
- Z) altocumulus

ANSWER: X) CIRRUS

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BONUS

3) EARTH SCIENCE *Multiple Choice* In the Northern Hemisphere, when is the Earth the greatest distance from the sun:

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- W) winter
- X) spring
- Y) summer
- Z) fall

ANSWER: Y) SUMMER

TOSS-UP

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Implitute 病 并接 % 4) MATH Short Answer The identity element for addition is what number?

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ANSWER: 0

BONUS

4) MATH Short Answer On a math test, 20 students averaged a score of 80% while 10 students averaged 90%. To the nearest whole number, what is the mean score of the entire class? Militala Star 44 13 1980 Maithin the #4 's PR Militate Market 18 180

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ANSWER: 83%

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5) PHYSICAL SCIENCE Multiple Choice Which of the following units is used to measure electric current:

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- W) voltage
- X) ohms

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- Y) amperes
- Z) watts

ANSWER: Y) AMPERES

BONUS

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5) PHYSICAL SCIENCE Short Answer What is the current, in amperes, running through a 200-watt light bulb running on a 100 volt power source.

ANSWER: 2 AMPERE

(Solution: current = watts/volts; 200/100 = 2 ampere)

TOSS-UP

6) GENERAL SCIENCE Short Answer What is the scientific term often used by astronomers Molitule Mark if the and geoscientists that refers to the point directly overhead?

ANSWER: ZENITH

BONUS

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6) GENERAL SCIENCE *Multiple Choice* The light year is a useful unit of measure for the distance between distance between:

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- W) planets
- X) stars

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- Y) atoms
- Z) asteroids

ANSWER: X) STARS

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- 7) LIFE SCIENCE Multiple Choice Which of the following parts of a plant produces pollen:
- W) petal

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- X) stamen
- Y) pistil
- Z) sepal

ANSWER: X) STAMEN

BONUS

- 7) LIFE SCIENCE Multiple Choice Plant cells differ from animal cells in that only plant cells possess:
- W) a nucleus
- X) mitochondria
- Y) a cell wall
- Z) lysosomes

ANSWER: Y) A CELL WALL

TOSS-UP

8) MATH *Short Answer* Solve the following equation:

ANSWER: -16

BONUS

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8) MATH Short Answer Convert the periodic decimal 0.8333 or 0.83 "bar" into a fraction:

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ANSWER: 5/6 Mylinda Str. # 13 PK

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- 9) EARTH SCIENCE *Multiple Choice* When, in the geological time scale, did dinosaurs roam the Earth in large numbers:
- W) Jurassic
- X) Triassic
- Y) Cretaceous
- Z) Tertiary

ANSWER: W) JURASSIC

BONUS

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- 9) EARTH SCIENCE Multiple Choice Meteor showers are composed of:
- W) large pieces of falling rocks
- X) dust and other debris from comets
- Y) falling stars
- Z) solar flares

ANSWER: X) DUST AND OTHER DEBRIS FROM COMETS

TOSS-UP

10) GENERAL SCIENCE *Short Answer* Rounded to the nearest whole number, how many centimeters are in 2 inches?

ANSWER: 5

1

1

1

1

Y.

BONUS

- 10) GENERAL SCIENCE Multiple Choice Which of the following is NOT true of comets:
- W) they have highly elliptical orbits around the sun
- X) they leave a trail of particles that reflect sun light
- Y) they are made of rocks and condensed gases
- Z) they can only be seen when they pass through the atmosphere

ANSWER: Z) THEY CAN ONLY BE SEEN WHEN THEY PASS THROUGH THE ATMOSPHERE

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11) EARTH SCIENCE *Short Answer* What is the name for the apparent force that causes hurricanes to be deflected to the right in the Northern hemisphere and to the last hemisphere? hemisphere?

ANSWER: THE CORIOLIS EFFECT (ACCEPT: CORIOLIS FORCE)

BONUS

- 11) EARTH SCIENCE Multiple Choice The supercontinent Pangea started to break apart into Inthitute 新春 · 養 序。 our present day continents approximately how many million years ago:
- W) 100

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Y.

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Y.

- X) 200
- Y) 300
- Z) 400

ANSWER: X) 200

TOSS-UP

12) MATH *Short Answer* Add the following numbers: 0.5 + 0.05 + 0.005

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ANSWER: 0.555

12) MATH Short Answer Remove the grouping symbols in the following expression: -3x(2 – 5z)

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ANSWER: -6x + 15xz (ACCEPT: 15xz - 6x) Mylinte # # 18 18 Maritule of the state of the st Militate At At & P.C.

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- Mylithia Mar At 13 18 13) PHYSICAL SCIENCE Multiple Choice Which of the following is the least dense at standard temperature and pressure:
 - W) 10 kilogram of pure water
 - X) 10 kilogram of aluminum
 - Y) 2 kilogram of silver
 - Z) 1 kilogram of gold

Y.

Y.

PA.

PA.

Y.

Y.

Ph.

Y.

ANSWER: W) 10 kilogram of pure water

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13) PHYSICAL SCIENCE Short Answer How many electron does the s subshell of an atom hold?

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TOSS-UP

- 14) LIFE SCIENCE Multiple Choice Which of the following is the scientific name for the knee cap:
 - W) fibula
 - X) malleus
 - Y) patella
 - Z) scapula

ANSWER: Y) PATELLA

BONUS

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14) LIFE SCIENCE Short Answer Organize the following 3 tooth layers from the outermost to the innermost of a tooth: dentin, enamel, pulp

ANSWER: ENAMEL, DENTIN, PULP

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15) GENERAL SCIENCE Short Answer How much does one cubic centimeter of water weigh at standard temperature and pressure?

ANSWER: 1 gram

Y.

1

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Y.

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Y.

- 15) GENERAL SCIENCE Multiple Choice Craters on the moon is evidence of :

 W) lakes that once existed
- X) visits from other life forms
- Y) asteroid impacts
- Z) plate tectonics

ANSWER: Y) ASTEROID IMPACTS

TOSS-UP 🖝 🔭

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16) PHYSICAL SCIENCE Multiple Choice The particles in an atom that determine which element it is are the:

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- W) nuclei
- X) electrons
- Y) neutrons
- Z) protons

ANSWER: Z) PROTONS

BONUS

- 16) PHYSICAL SCIENCE Multiple Choice All metals:
- W) melt at high temperatures
- X) conduct heat and electricity
- Y) contain iron

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Z) react with air and water

ANSWER: X) CONDUCT HEAT AND ELECTRICITY

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- 17) LIFE SCIENCE Multiple Choice Which of the following parts of a cell is most directly responsible for synthesizing proteins:
 - W) ribosomes
 - X) endoplasmic reticulum
 - Y) vacuoles
 - Z) lysosomee

ANSWER: W) RIBOSOMES

BONUS

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17) LIFE SCIENCE *Short Answer* This structure that develops in the wall of the uterus functions in the pregnant mammals to transfer nourishment and oxygen and remove wastes from the developing offspring.

ANSWER: PLACENTA Maritud Start 'S

TOSS-UP

Militing 新林·接際 18) EARTH SCIENCE Short Answer Which equinox marks the beginning of spring in the Northern Hemisphere?

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ANSWER: VERNAL EQUINOX

BONUS

18) EARTH SCIENCE Multiple Choice Steep-sided volcanoes such as Mounts Rainier, Hood, and Fuji, are examples of what kind of volcanoes:

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W) stratovolcanoes

1

1

1

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Y.

- X) tephra cone volcanoes
- Y) shield volcanoes
- Z) tower volcanoes

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ANSWER: W) STRATOVOLCANOES

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- 19) GENERAL SCIENCE Multiple Choice The Sahara Desert in Africa is what type of desert?
 - W) subtropical
 - X) continental
 - Y) rain shadow
 - Z) coastal

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Y.

Y.

Y.

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Y.

ANSWER: W) SUBTROPICAL

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BONUS

19) GENERAL SCIENCE *Short Answer* What are the 4 physical states of matter?

ANSWER: SOLID, LIQUID, GAS, PLASMA

TOSS-UP

- 20) LIFE SCIENCE Multiple Choice Which of the following is the scientific name for the thigh bone: Millinin 教教教·蒙然 Milital Mar Haris 1880 Militate Mark to 18 180
- W) tibia

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- X) femur
- Y) fibula
- Z) humerus

ANSWER: X) FEMUR

BONUS

20) LIFE SCIENCE Short Answer When a nerve message reaches the end of an axon it sends a Millute Mark 18 182 message or impulse across, the space between the nerves to continue its message to the next nerve. What is the space across which the message is sent usually called?

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ANSWER: SYNAPSE

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- 21) PHYSICAL SCIENCE Multiple Choice When a car turns a corner on dry pavement, the wheels do not slide sideways and the car completes the turn due to what interaction between the tires and the pavement?
 - W) friction
 - X) torque
- Y) drag

Y.

PA.

PA.

Y.

1

1

1

Y.

Z) acceleration

ANSWER: W) FRICTION

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21) PHYSICAL SCIENCE Multiple Choice Complex carbohydrates are called:

W) polypeptides

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- W) polypeptides
- X) polynuclides
- Y) polypropylenes
- Z) polysaccharides

ANSWER: Z) POLYSACCHARIDES

TOSS-UP

22) MATH Short Answer What kind of fraction has the absolute value of the numerator greater than the denominator?

Maritale Mark 18 18 ANSWER: IMPROPER FRACTION

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22) MATH Multiple Choice Which of the following numbers is divisible by 3:

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- W) 5.163
- X) 2,465
- Y) 1.315
- **Z**) 313

ANSWER: W) 5,163

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23) EARTH SCIENCE Short Answer With a Mohs' hardness of 1, what is the softest mineral known?

ANSWER: TALC

Y.

1

PA.

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1

1

1

Y.

BONUS

- Mylithe Mark is 1980 23) EARTH SCIENCE Multiple Choice The first scientist to propose the hypothesis of the past existence of the supercontinent Pangea was: Milling 素素 ·養 ·養 Inthinte 新春·養祭
 - W) James Hutton
 - X) John Filmore Hayford
 - Y) Charles Darwin
 - Z) Alfred Wegener

ANSWER: Z) ALFRED WEGENER Maritute Mark '\$

TOSS-UP

24) GENERAL SCIENCE Short Answer What vitamin is the most directly associated with the disease scurvy?

ANSWER: VITAMIN C

BONUS

24) GENERAL SCIENCE Multiple Choice Which of the following is the best estimate of what a gallon of water weighs in kilograms?

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- W) 2 kilograms
- X) 4 kilograms
- Y) 6 kilograms
- Z) 8 kilograms

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ANSWER: X) 4 KILOGRAMS

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25) MATH Short Answer What is the name for a set that contains no elements?

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ANSWER: EMPTY SET

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Marithe Market & 18 Inhihita 新春 · 養 序 25) MATH *Short Answer* Solve the following expression: $2\sqrt{25} + 25 \div 5$

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Mulitude Mar No. 18 18. ANSWER: 15 Maritule ## # 3

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