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TOSS-UP

- Marithle Mar Hr ' & PR 1) PHYSICAL SCIENCE Multiple Choice When an airplane's ailerons move in opposite directions they usually cause a plane to: Molitule Market 18 180 Molitule Market is 180 Millinin 教教教·婆 然 Myithin 教育 养 · 溪 序
 - W) pitch
 - X) yaw

Y.

Y.

Y.

W.

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- Y) roll
- Z) stall

ANSWER: Y) ROLL

BONUS, IN THE STATE OF THE STAT

1) PHYSICAL SCIENCE Multiple Choice Calcium, strontium, and barium are commonly called what kind of elements?

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- W) halides
- X) inert
- Y) alkali metals
 - Z) alkaline earth

ANSWER: Z) ALKALINE

TOSS-UP

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- 2) EARTH SCIENCE Multiple Choice In which of the geological time periods, did dinosaurs first appear:
- W) Jurassic
- X) Triassic
- Y) Cretaceous
- Z) Tertiary

ANSWER: X) TRIASSIC

BONUS

2) EARTH SCIENCE Short Answer In what layer of the Earth's atmosphere does most of our weather occur?

ANSWER: TROPOSPHERE Milital Mark of Sept. 18 18.

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3) MATH Short Answer If 2 sides of a quadrilateral are parallel and the other sides are equal but NOT parallel, what is the quadrilateral known as?

ANSWER: TRAPEZOID

BONUS

3) MATH Short Answer Find the area of a triangle whose base is 8 and whose height is 6:

ANSWER: 24

Y.

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PA.

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Y.

1

1

W.

(Solution: A = 1/2bh)

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- 4) LIFE SCIENCE Multiple Choice A series of amino acids joined together will make a: Milling 新春 · 溪 塚
- W) polysaccharide
- X) DNA
 - Y) sugar
- Z) protein

ANSWER: Z) PROTEIN

BONUS

4) LIFE SCIENCE Multiple Choice When a nerve message reaches the end of an axon it sends a message or impulse across the space between the nerves to continue its message to the next nerve by a substance best known as: Militate A H W Militale Market 18 18 Myithin Mark 18 18

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- W) synaptic nodes
- X) neuromotor stimluli
- Y) neurotransmitters
- Z) intersynaptic dosimeters

ANSWER: Y) NEUROTRANSMITTERS Maritute Mar 14 13

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- 5) PHYSICAL SCIENCE Multiple Choice Which of the following moves in the form of a longitudinal compression wave:
 - W) ocean wave

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- X) sound wave
- Y) light wave
- Z) electromagnetic wave

ANSWER: X) SOUND WAVE

BONUS

5) PHYSICAL SCIENCE Short Answer What is the resistance of an electric drill that draws 8 amps on a 120 volt line?

ANSWER: 15 OHMS

(Solution: I = V/R, R = V/I, R = 120/8 = 15)

TOSS-UP

6) GENERAL SCIENCE Short Answer Ergot, Amanita muscaris, Penicillium and smut are all organisms that belong to which one of the five classical Kingdoms of life?

ANSWER: FUNGI

Y.

W.

BONUS

- *6) GENERAL SCIENCE Multiple Choice When the moon appears through the night as a thin crescent, the suns light: Molitule ## # 18 PR Ministration of the state of th
- X) still illuminates about half the surface of the moon
 Y) is only hitting the crescent region

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Z) only shines during the day

Maithia *** ** ANSWER: X) STILL ILLUMINATES ABOUT HALF THE SURFACE OF THE MOON Militale An At 18

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- 7) MATH Multiple Choice If a biker traveled at an average speed of 3 meters/second for 100 seconds, the length of the biker's path was about:
 - W) 33 meters

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Y.

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W.

- X) 300 meters
- Y) 100 meters
- Z) 1 kilometer

ANSWER: X) 300 METERS

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BONUS

7) MATH Short Answer If a perfect number is an integer equal to the sum of all its divisors, except the number itself, what is the lowest perfect number?

ANSWER: 6

(Solution: 6 = 1 + 2 + 3) Milital Market &

TOSS-UP

- 8) LIFE SCIENCE Multiple Choice Most animal eukaryotic cells have:
- W) a cell wall, nucleus, and cytoplasm
- X) a plasma membrane, nucleus, and cytoplasm
- Y) a cell wall, nucleus, and nucleolus
 - Z) a cell wall, nucleus, and mitochondrion

ANSWER: X) A PLASMA MEMBRANE, NUCLEUS, AND CYTOPLASM

BONUS

8) LIFE SCIENCE Short Answer What is the term used by Charles Darwin that he believed was the principle mechanism of evolution and way that nature chose certain members of a population Militate At 18 18 Maritule Mark 18 182 加加州海海水溪水 to survive over others?

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ANSWER: NATURAL SELECTION

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9) GENERAL SCIENCE Short Answer In order from the beginning, what are the first 5 letters of the Greek alphabet?

ANSWER: alpha, beta, gamma, delta, epsilon

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BONUS

9) GENERAL SCIENCE Short Answer Rounded to the nearest whole number, what is the temperature in Fahrenheit of a substance at -40°C? Inditude 新春 · 養 序。

ANSWER: -40

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Y.

Y.

Y.

1%

Y.

1

1

Y.

W.

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TOSS-UP

10) MATH Short Answer Identify the quotient, dividend, and divisor for $15 \div 3$:

ANSWER: QUOTIENT = 5; DIVIDEND = 15; DIVISOR = 3

BONUS

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10) MATH Short Answer Give the product of $(x + 7)^2$ in standard form:

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ANSWER: $x^2 + 14x + 49$

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- 11) PHYSICAL SCIENCE Multiple Choice Ultrasonic sound frequencies are typically considered to be
 - W) above 20,000 kilohertz
 - X) below 20,000 kilohertz
 - Y) above 20,000 Hertz
 - Z) below 20,000 Hertz

Y.

1

1

1

1

W.

ANSWER: Y) ABOVE 20,000 HERTZ

BONUS

- 11) PHYSICAL SCIENCE Multiple Choice Predict which object made of the following metal will sink in a pool of Mercury, which has a density 13.5 grams per cubic centimeter:
- W) aluminum, which has a density of 2.6 grams per cubic centimeter
- X) iron, which has a density of 7.9 grams per cubic centimeter
- Y) lead, which has a density of 11.34 grams per cubic centimeter
- Z) uranium, which has a density of 19.5 grams per cubic centimeter

ANSWER: Z) URANIUM, WHICH HAS A DENSITY OF 19.5 GRAMS PER CUBIC **CENTIMETER**

TOSS-UP

12) EARTH SCIENCE Short Answer In what layer of the Earth's atmosphere does most of our weather occur?

ANSWER: TROPOSPHERE

BONUS

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12) EARTH SCIENCE Short Answer Lines on a weather map connecting places of equal air pressure are called:

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Mylithe Mar hat 's PR 13) LIFE SCIENCE Short Answer What main artery carries oxygenated blood immediately away from left ventricle of the heart?

ANSWER: AORTA

Y.

PA.

PA.

Y.

Y.

1

1

W.

BONUS

13) LIFE SCIENCE Short Answer What is the vector that transmits Rocky Mountain Spotted Fever to humans?

ANSWER: THE TICK (ACCEPT: DERMACENTAR)

Ph.

TOSS-UP

Militale Art 18 18 14) GENERAL SCIENCE Short Answer On the Kelvin temperature scale give the whole number value that is the closest to absolute zero.

ANSWER: 0

BONUS

14) GENERAL SCIENCE Multiple Choice Stars appear to have different colors because they have different:

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- W) distances
- X) ages
- Y) temperatures
- Z) names

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ANSWER: Y) TEMPERATURES

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15) MATH Short Answer Solve the following equation: -4 + x = -5ANSWER: -1

ANSWER: -1

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Y.

Y.

1

Y.

1

1

Y.

W.

BONUS

15) MATH Short Answer Give the median for the following data set: 32, 59, 68, 70, 84

ANSWER: 68

(Solution: mean or average is 62.6; median is middle, not average)

TOSS-UP

16) EARTH SCIENCE Short Answer Identify the type of structure associated with the following man-made structures in the United States: Hungry Horse, Yellowtail, Glen Canyon, Grand Coulee, and Hoover

ANSWER: DAMS

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Milita Mark 18 182 16) EARTH SCIENCE Short Answer What is the name of the boundary between the troposphere and the stratosphere?

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ANSWER: TROPOPAUSE

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- 17) PHYSICAL SCIENCE *Multiple Choice* The electrons that are shared in chemical bonds between atoms are most accurately called:
- W) inner electrons

Y.

1

PA.

PA.

Y.

1

1

1

Y.

- X) quantum electrons
- Y) valence electrons
- Z) jumping electrons

ANSWER: Y) VALENCE ELECTRONS

BONUS

- 17) PHYSICAL SCIENCE Multiple Choice In grams per milliliter, which of the following is closest to the density of ice:
- W) 0.26
- X) 0.92
- Y) .99
- Z) 3.00

ANSWER: Y) .99

TOSS-UP

18) LIFE SCIENCE *Short Answer* What is the protein found in red blood cells that carries oxygen:

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ANSWER: HEMOGLOBIN

BONUS

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18) LIFE SCIENCE *Short Answer* What is the vector for the germ which caused the black plague?

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ANSWER: FLEA

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19) EARTH SCIENCE *Short Answer* With a Mohs' hardness of 10, what is the hardest mineral known?

ANSWER: DIAMOND

Y.

1

PA.

Y.

1

1

1

Y.

BONUS

19) EARTH SCIENCE *Short Answer* Most of the ozone in the Earth's atmosphere is present in which layer?

ANSWER: STRATOSPHERE

TOSS-UP

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20) GENERAL SCIENCE *Short Answer* What is the mineral that has tricked so many people into thinking it was the real precious metal gold that its common name is "fool's gold"?

ANSWER: IRON PYRITE

BONUS

20) GENERAL SCIENCE *Multiple Choice* Early astronomers observed lights that wandered among the stars, today we know these are:

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- W) sun spots
- X) asteroid belts
- Y) constellations
- Z) planets

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ANSWER: Z) PLANETS

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21) GENERAL SCIENCE Short Answer What is the term used for the unusual infectious agents that cause mad cow disease?

ANSWER: PRIONS

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Y.

Y.

PA.

Y.

Y.

1

1

1

Y.

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BONUS

Mylithe Mark 1/2 1/8 21) GENERAL SCIENCE Short Answer George Washington Carver found over 100 uses for the organic molecules derived from what common plant? Indititite 教育教養學 matitud Mar At 18 18

ANSWER: PEANUT

TOSS-UP

22) EARTH SCIENCE Short Answer What is the name of the form of oxygen that is present in the atmosphere that protects life on Earth by absorbing much of the ultraviolet radiation from the sun?

ANSWER: OZONE (ACCEPT: O₃)

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22) EARTH SCIENCE Short Answer What are the names of the tides that occur when the sun's tidal bulges and the moon's tidal bulges are at right angles to each other?

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ANSWER: NEAP TIDES Milital 教教教 教

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23) MATH Short Answer The identity element for multiplication is what number?

ANSWER: 1

1

Y.

PA.

Y.

1

1

Y.

Y.

BONUS

23) MATH Short Answer After a discount of 20%, the price of a motorcycle was \$10,000. What was the original price of the motorcycle?

ANSWER: \$12,500.00

TOSS-UP

24) LIFE SCIENCE Short Answer Mendel did most of his original experimentation using this type of plant:

ANSWER: PEA

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ANSWER: OUTSIDE OF CELLS (ACCEPT: IN BETWEEN CELLS OR IN THE INTERSTITIUM)

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25) PHYSICAL SCIENCE Short Answer Whole multiples of the fundamental tone are usually called:

ANSWER: HARMONICS (ACCEPT: HARMONIC OVERTONES OR PERFECT OVERTONES)

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BONUS

25) PHYSICAL SCIENCE Short Answer If an atom of fluorine has an atomic number of 9 and an atomic mass of 18.998, how many protons and neutrons are in the nucleus? Inditute 素素 · 養 · 學

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ANSWER: 9 PROTONS, 10 NEUTRONS Timititule side

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