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TOSS-UP

Matinta Mar ph ' 18 PR Mylitine ** ** ** 1) PHYSICAL SCIENCE Short Answer What is the most common term for the energy an object has because of its position or configuration? ANSWER: POTENTIAL Militate # # 18 18 Imhiling 新光·接際

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BONUS

1) PHYSICAL SCIENCE Short Answer Which one of the four basic forces of the universe is most directly involved with maintaining the planets in their orbits? Whiting the 18 18

ANSWER: GRAVITY

TOSS-UP

glaciers dominates Greenland today? 2) EARTH SCIENCE Short Answer Based on size and location, which of the 2 basic types of

ANSWER: CONTINENTAL (ACCEPT: ICE SHEET)

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BONUS

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- 2) EARTH SCIENCE Multiple Choice Which of the following fossils is the oldest:

 W) trilobite
 - W) trilobite
 - X) snake

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- Y) petrified wood

ANSWER: W) TRILOBITE

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Matinte Mark & Pic 3) MATH Short Answer What is the measure, in degrees, of each angle in an equilateral triangle?

ANSWER: 60 (ACCEPT: 60, 60, 60)

BONUS

3) MATH *Short Answer* Reduce the following fraction to a proper fraction in lowest terms: 125

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ANSWER:

TOSS-UP

- 4) GENERAL SCIENCE Multiple Choice Which of the following can sometimes result after a moderate to severe blow to the head:
- W) Down syndrome
- X) meningitis
- Y) impetigo
- Z) concussion

ANSWER: Z) CONCUSSION

BONUS

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4) GENERAL SCIENCE Short Answer What is the year of a person's death who was born in the year 580 BC and lived 63 years?

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ANSWER: 517 BC (ACCEPT: 517)

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5) LIFE SCIENCE Short Answer How many limbs are tetrapods typically considered to have?

ANSWER: 4

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Y.

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BONUS

- 5) LIFE SCIENCE *Multiple Choice* Which of the following is the most common source of energy for brain cells in humans:
 - W) nucleic acids
 - X) proteins
- Z) pectins Y) glucose

ANSWER: Y) GLUCOSE

TOSS-UP

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6) PHYSICAL SCIENCE Short Answer What is the most common term for the ratio of the output force to the input force of a simple machine?

ANSWER: MECHANICAL ADVANTAGE (ACCEPT: ACTUAL MECHANICAL ADVANTAGE)

BONUS

6) PHYSICAL SCIENCE Multiple Choice Which of the following most directly contributes to the actual mechanical advantage always being less than the ideal mechanical advantage: Militale Market 18 182

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- W) the basic design of any machine
- X) friction

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- Y) how simple machines are combined
- Z) the input distance always being less than the output distance

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Britiste star it is the ANSWER: X) FRICTION Militale Start 18

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- 7) EARTH SCIENCE Multiple Choice Which of the following is NOT a mineral:

 W) quartz
- W) quartz
- X) topaz

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Y.

Y.

- Y) basalt
- Z) diamond

ANSWER: Y) BASALT

BONUS

- 7) EARTH SCIENCE Multiple Choice Which of the following is the hottest region of planet Earth:
- W) the mantle
- X) the inner core
- Y) the outer core
- Z) the crust

ANSWER: X) THE INNER CORE

TOSS-UP

dimensions are 3-inches by 5-inches by 8-inches: 8) MATH Short Answer Find the volume, in inches cubed, of a rectangular solid whose

ANSWER: 120

BONUS

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8) MATH Short Answer Convert 150% into a mixed fraction in lowest terms: Mislitute Am ** 13 182

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ANSWER: $1\frac{1}{2}$

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9) GENERAL SCIENCE *Short Answer* What is the kelvin temperature that represents a condition of no molecular motion?

ANSWER: 0 (ACCEPT: ABSOLUTE ZERO)

9) GENERAL SCIENCE Short Answer How many grams are in 1 metric ton?

ANSWER: 1 MILLION (ACCEPT: 1)

10) LIFE SCIENCE Short Answer What is the ultimate energy source for nearly all life on Earth?

ANSWER: THE SUN

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10) LIFE SCIENCE Short Answer What is the environmental factor most directly involved in phototropism?

ANSWER: LIGHT (ACCEPT: SUNLIGHT or SUN)

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- 11) PHYSICAL SCIENCE *Multiple Choice* If a chimpanzee were to throw darts at a Periodic Table, he would most likely hit an element with which of the following characteristics:
- W) a naturally radioactive element
- X) a solid at room temperature
- Y) a gas at room temperature
- Z) a liquid at room temperature

ANSWER: X) A SOLID AT ROOM TEMPERATURE

BONUS

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- 11) PHYSICAL SCIENCE Multiple Choice Which of the following has the most inertia:
 - W) 1 kilogram of iron
 - X) 2 kilograms of flour
 - Y) 5 newtons of iron

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Z) 4 kilograms of iron

ANSWER: Z) 4 KILOGRAMS OF IRON

TOSS-UP

- 12) EARTH SCIENCE *Multiple Choice* Which of the following is the BEST example of the chemical weathering of rock:
 - W) cracking of rock by plant roots

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- X) rain percolating through limestone
- Y) frost action
- Z) abrasion

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ANSWER: X) RAIN PERCOLATING THROUGH LIMESTONE

BONUS

12) EARTH SCIENCE *Short Answer* What is the name for the "river" of high altitude wind over North America that marks the southern boundary between polar air to the north and warmer air to the south?

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ANSWER: POLAR JET STREAM (ACCEPT: JET STREAM)

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Militate Re		Multiple Choice I operations:	Minuends and	l subtrahends ar	e used in which o	f the following

W) addition

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X) subtraction

multiplic Z) division Y) multiplication

ANSWER: X) SUBTRACTION

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BONUS

13) MATH *Short Answer* If the area of a square field is 1,600 square feet, how many feet long is one of its sides?

ANSWER: 40

TOSS-UP

slithte Mark is 182 14) GENERAL SCIENCE Short Answer What is the general name for a plastic material composed of a polymer of styrene?

ANSWER: POLYSTYRENE (ACCEPT: STYROFOAM)

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- Militation of the state of the 14) GENERAL SCIENCE Multiple Choice Which of the following is a product found in most toothpastes for the purpose of making the teeth more resistant to decay by promoting Millinin 教 林· 该 序 Majituto ** ** ** remineralization:
- W) fluoride
- X) melamine

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- Y) titanium dioxide
- Z) diethylene glycol

ANSWER: W) FLUORIDE Millate Mark 18 1982

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15) LIFE SCIENCE Short Answer What is the scientific name of the human windpipe?

ANSWER: TRACHEA

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Y/L

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Y.

BONUS

15) LIFE SCIENCE *Short Answer* The organ of Corti is directly involved in what human sense?

ANSWER: HEARING

TOSS-UP

- Milital Mark & PR 16) PHYSICAL SCIENCE *Multiple Choice* Which of the following is TRUE regarding mixing pigments:
 - W) violet is typically considered a primary color for pigments

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- Y) as more pigments are mixed, the darker the resulting mixture becomes Z) magenta and cyan are complementary pigment and

ANSWER: Y) AS MORE PIGMENTS ARE MIXED, THE DARKER THE RESULTING MIXTURE BECOMES

BONUS

16) PHYSICAL SCIENCE Short Answer What color will a red colored object appear to a human if it is illuminated by a red light?

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- W) magnetism
- X) specific gravity

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z) color Z) cleavage

ANSWER: Y) COLOR

BONUS

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17) EARTH SCIENCE *Multiple Choice* Which of the following terms best describes the streak of a mineral:

- W) wavy
- X) tabular
- z (ranslu Z) brown Y) translucent

ANSWER: Z) BROWN

18) MATH *Short Answer* What is the identity element for addition on the integers?

ANSWER: 0

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18) MATH Short Answer The sum of two numbers is 16 and their product is 55. What are the two numbers?

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ANSWER: 11; 5 (in any order) Millate Mark 18 1982 Malitute Mark 18 182

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- 19) GENERAL SCIENCE *Multiple Choice* Which of the following best describes a smaller stream that merges with a larger stream:
- W) delta

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- X) rip-rap
- Y) streamer
- Z) tributary

ANSWER: Z) TRIBUTARY

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- 19) GENERAL SCIENCE *Multiple Choice* Which of the following is a structural adaptation of ducks that is most helpful in keeping them dry:
 - W) an oil-producing gland
 - X) hollow fur
- Z) ability to float Y) darkly colored plumage

ANSWER: W) AN OIL-PRODUCING GLAND

- 20) LIFE SCIENCE *Multiple Choice* Which of the following is the closest synonym for motile:
- W) having a motor
- X) using energy
- Y) able to move
- Z) living in water

ANSWER: Y) ABLE TO MOVE

BONUS

- 20) LIFE SCIENCE Multiple Choice Which of the following terms is used by microbiologists for a bacterium with a rod shape:
- W) tubular
- X) bacillus

- Y) trichome

ANSWER: X) BACILLUS

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21) PHYSICAL SCIENCE Short Answer What nucleon balances the charge of electrons to give an atom a neutral state?

ANSWER: PROTON(S)

BONUS

21) PHYSICAL SCIENCE Short Answer Nitrogen has 7 protons. What is the atomic mass of its common isotope, rounded to the nearest whole number?

ANSWER: 14

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22) EARTH SCIENCE Short Answer What molecular substance is believed to be the most basic requirement or signature for life to exist on a planet? Mythun 新春春·養學 Milliante state state is the

ANSWER: WATER (ACCEPT: H₂O)

BONUS

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22) EARTH SCIENCE *Short Answer* What planets are able to pass between the Earth and the THE STATE OF THE S Sun?

ANSWER: MERCURY; VENUS

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23) MATH Short Answer Evaluate the following, giving your answer as a proper fraction in simplest terms:

ANSWER: ½

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23) MATH Short Answer Find the area, in meters squared, of a parallelogram whose base measures 8 meters and height measures 10 meters: Maritule 横林 接 梯 Militally Mar # 13 182

(Solution: $A = bh = 80 \text{ m}^2$)

- 24) GENERAL SCIENCE *Multiple Choice* The lead-acid battery is most commonly found in:
 - W) automobiles
 - X) cell phones
 - Y) flashlights
 - Z) laptop computers

ANSWER: W) AUTOMOBILES

BONUS

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24) GENERAL SCIENCE Short Answer From what biological polymer is paper primarily composed?

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ANSWER: CELLULOSE

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Marithle Mark & Pic 25) LIFE SCIENCE *Short Answer* What is the common name of the members of the Class Aves?

ANSWER: BIRDS

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25) LIFE SCIENCE *Short Answer* Name all of the following 3 groups of animals that are vertebrates: amphibians; reptiles: gastropods

ANSWER: AMPHIBIANS; REPTILES motivite # 14 18 Mylithe ## # 13 PR Marithle Mar Hr 13 180

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