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TOSS-UP

Mysithte Mar No. 18 18. 1) LIFE SCIENCE Short Answer Living organisms are often divided into five Kingdoms. In which of the 5 Kingdoms would *E. coli* be classified? Marithus Market 18 180 Marith Mar H. 13 PR

ANSWER: MONERA

Y.

Y.

Y.

Ph.

1

1

Ph.

Y.

BONUS

1) LIFE SCIENCE Short Answer What is the binomial scientific genus and species name for humans?

ANSWER: HOMO SAPIENS

TOSS-UP

2) EARTH SCIENCE Short Answer The Triassic, Jurassic, and Cretaceous are all periods in what era?

ANSWER: MESOZOIC

BONUS

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- 2) EARTH SCIENCE Multiple Choice Which of the following is the correct term for a large crack in ice:
- W) crevice
- X) chasm
- Y) canyon

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Z) crevasse (PRONOUNCE: crah-VAHSS)

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ANSWER: Z) CREVASSE Militate ## # 18 18 Militing 素素 * · 溪 · 溪 · 溪 · 溪 Militalle Art At 18 P.

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- 3) PHYSICAL SCIENCE Multiple Choice What is the density given as specific gravity, of a one centimeter cube of a metal that weighs 5 grams:
 - W) .5
 - X) 5

Y.

Y.

PA.

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Ph.

Y.

- Y) 2
- Z) .2

ANSWER: X) 5

BONUS

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- 3) PHYSICAL SCIENCE Multiple Choice Which of the following has the greatest density:
- W) 10 kilogram of pure water
- X) 10 kilogram of aluminum
- Y) 2 kilogram of silver
- Z) 1 kilogram of gold

ANSWER: Z) 1 KILOGRAM OF GOLD

4) MATH Peter bought a soda from a vending machine with a dollar bill. The soda cost 35 cents. What is the smallest number of coins he could receive in change if pennies are not included?

ANSWER: FOUR

BONUS

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4) MATH What is the integer value of 10⁵ divided by 10³?

ANSWER: 100 (DO NOT ACCEPT: 10²)

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- 5) GENERAL SCIENCE Rickets, which was a common disease in the early twentieth century, is caused by a deficiency in what vitamin:
 - W) riboflavin

Y.

PA.

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Ph.

Y.

- X) vitamin B12
- Y) vitamin K
- Z) vitamin D

ANSWER: Z) VITAMIN D

BONUS

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5) GENERAL SCIENCE Short answer Exposure to sunlight converts cholesterol found in human skin into what vitamin?

ANSWER: VITAMIN D Mistitute Mit # '\$

TOSS-UP

- 6) EARTH SCIENCE Which of the following is present only where benthic organisms reside: Molitule Mark if the
- W) phytoplankton
- X) zooplankton
- Y) diatoms
- deep sea vents

ANSWER: Z) DEEP SEA VENTS

BONUS

6) EARTH SCIENCE Short Answer What is the name of the rapid rise of coastal water that accompanies the arrival of a cyclone? Mistitute State 14 18 18

ANSWER: TIDAL SURGE (ACCEPT: STORM OR BASAL SURGE)

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- 7) PHYSICAL SCIENCE Multiple Choice Which of the following metals is attracted to a magnet?
- W) gold

Y.

PA.

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1

1

1

Y.

- X) silver
- Y) iron
- Z) aluminum

ANSWER: Y) IRON

BONUS

- 7) PHYSICAL SCIENCE Multiple Choice The reaction of hydrocarbons found in such things as wood and paper with oxygen to produce carbon dioxide, water and heat is called:
- W) fission
- X) fusion
- Y) endothermic
- Z) combustion

ANSWER: Z) COMBUSTION

8) EARTH SCIENCE *Multiple Choice* Metamorphism transforms limestone into a metamorphic rock called:

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- W) quartzite
- X) marble
- Y) hornfel
- Z) granite

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ANSWER: X) MARBLE

BONUS

8) EARTH SCIENCE Short Answer What are the icicle-shaped deposits of limestone hanging from the roof of a cave called:

ANSWER: STALACTITES

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- 9) LIFE SCIENCE Multiple Choice Which of the following is the region of the body where the stapes bone is located:
- W) ankle
- X) ear 🚜

Y.

PA.

1

W.

1

1

1

Y.

- Y) wrist
- Z) knee

ANSWER: X) EAR

BONUS

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9) LIFE SCIENCE Short Answer Sharks belong the class Chondricthyes because they have a skeleton made of what substance?

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ANSWER: CARTILAGE

TOSS-UP

10) GENERAL SCIENCE Short Answer Engineers in the USA often report pressure in PSI's. What does the abbreviation PSI stand for? Marithus Mar # 18 180 Moritalle Mark 18 18

ANSWER: POUNDS per SQUARE INCH

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BONUS

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10) GENERAL SCIENCE Multiple Choice Which planet does not have an element named after it? after it?

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- W) Uranus
- X) Mars
- Y) Mercury
- Z) Pluto

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ANSWER: X) MARS

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- 11) MATH Multiple Choice A parallelogram whose adjacent sides are unequal is a:
 - W) deltoid

1

Y.

1

Ph.

1

1%

Ph.

Y.

- X) rectangle
- Y) rhomboid
- Z) monogram

ANSWER: Y) RHOMBOID

BONUS

Maritule Mar # 18 180 11) MATH Short Answer Solve the following equation: 9x - 13 = 14

ANSWER: 3

TOSS-UP

12) GENERAL SCIENCE *Short Answer* On the Centigrade temperature scale give the whole number value that is the closest to absolute zero.

ANSWER: MINUS 273

BONUS

12) GENERAL SCIENCE Multiple Choice Which of the following is NOT seen by reflection Myithin 教教教·婆·家 Militate ## # 18 18 W) the moon
X) Mercury of sun light:

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- Y) Mars

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Z) the north star

ANSWER: Z) THE NORTH STAR

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Marithle Mar Hr ' & PR 13) PHYSICAL SCIENCE Multiple Choice Metals that can be hammered into thin sheets are called:

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- W) malleable
- X) ductile

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Y.

Y.

Y.

1%

W.

Ph.

1

Ph.

Y.

- Y) molten
- Z) pure

ANSWER: W) MALLEABLE

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BONUS

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13) PHYSICAL SCIENCE Short Answer A white-colored object illuminated by a blue light will appear as what color to the human eye?

ANSWER: BLUE

Militally Mar # 13 182 TOSS-UP

- 14) LIFE SCIENCE *Multiple Choice* Which of the following is an intracellular parasite: This itute the state of the sta
- W) malaria
- X) sleeping sickness
 - Y) tapeworm
- Z) shigella

ANSWER: W) MALARIA

BONUS

14) LIFE SCIENCE Multiple Choice In mammals, what teeth are evolved primarily to function Molitule At 18 18 Milling 新春 · 接 「然 Maritule # # 18 18 Militate Mark to 18 180 in gripping and tearing

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- W) incissors
- X) canines
- Y) molars
- Z) wisdom

ANSWER: X) CANINES

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- 15) EARTH SCIENCE Multiple Choice Each day, most coastal beaches encounter:
 - W) one high tide and one low tide
 - X) two high tides and one low tide
 - Y) two high tides and two low tides
 - Z) three high tides and three low tides

ANSWER: Y) TWO HIGH TIDES AND TWO LOW TIDES

BONUS

- Minitially Market 18 180 15) EARTH SCIENCE Multiple Choice Which of the following is a metamorphic rock:
- W) sandstone
- X) granite

Y.

Y.

1

Ph.

10

1

Y.

Y.

- Y) quartz
- Z) marble

ANSWER: Z) MARBLE

TOSS-UP

16) MATH *Short Answer* What is the cube root of 8?

ANSWER: 2

BONUS

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16) MATH Short Answer Solve the following equation: 3x + 15 = -12

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ANSWER: -9

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17) GENERAL SCIENCE Short Answer At its greatest possible brightness, which is the brightest planet in the night sky?

ANSWER: VENUS

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Y.

1

1

Ph.

1

1

Y.

Y.

BONUS

17) GENERAL SCIENCE *Multiple Choice* The largest of the suns planets are:

- W) Venus and Mars
- X) Jupiter and Saturn
- Y) Neptune and Pluto
- Z) Mercury and Uranus

ANSWER: X) JUPITER AND SATURN

TOSS-UP TOSS-UP

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- 18) EARTH SCIENCE Multiple choice By our current estimations, the Earth is approximately how many billions of years old:
- W) 8.4 %
- X) 6.2
- Y) 4.6
- Z) 2.4

ANSWER: Y) 4.6

BONUS

- 18) EARTH SCIENCE Multiple Choice The Earth's mantle is approximately how many miles thick: Ministration of the state of th Mikituto Make 18 18 Militate At A 18 18 Militale Market 18 18
- W) 1000
- X) 1200
- Y) 1500
- Z) 1800

stitute 新来等 ANSWER: Z) 1800

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- 19) LIFE SCIENCE Multiple Choice Which of these organisms in not a kind of worm?

 W) planerian
 - W) planerian
 - X) fluke

Y.

Y.

Y.

PA.

W.

10

1

Ph.

Y.

- Y) leech

ANSWER: Z) CENTIPEDE

BONUS

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19) LIFE SCIENCE Short Answer What is the common specific name for the bond that joins two amino acids to form a growing protein:

Milling 新菜菜家 ANSWER: PEPTIDE BOND Maritude Mark '\$

TOSS-UP

- Maithin Mark & PR 20) MATH Multiple Choice Four divided by zero is:
- (W) 4
 - X) undefined
 - Y) 0
 - Z) infinity

ANSWER: X) UNDEFINED

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Milita Mi H & PR 20) MATH Short Answer Find the value of $x^2 - y^2$ when x = -5 and y = -2:

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ANSWER: 21

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21) PHYSICAL SCIENCE Short Answer What is the common scientific term for the ratio of the density of a material to that of water at 4°c

ANSWER: SPECIFIC GRAVITY

21) PHYSICAL SCIENCE Multiple Choice Starch is made of what simple sugar?

W) fructose

Marithus Mar of 18 180

Y.

1

Y.

Ph.

10

1

Ph.

Y.

- X) mannose
- Y) glucose
- Z) ribose

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ANSWER: Y) GLUCOSE

TOSS-UP

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22) EARTH SCIENCE Short Answer A large mass of ice, formed on land by the compaction and recrystallization of snow, that is moving downhill or outward under the force of gravity is called:

A GLACIER ANSWER:

BONUS

22) EARTH SCIENCE Multiple Choice A flat-topped plateau bordered on all sides by cliffs is called a:

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- W) hillock
- X) butte
- Y) drumlin
- Z) karst

ANSWER: X) BUTTE William Whit the 18 180 ditule the the light of the Ministate And At 18 18

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23) GENERAL SCIENCE Short Answer How many microgams are in a single milligram?

ANSWER: 1000

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1

Y.

PA.

1

Y.

10

1

Ph.

Y.

BONUS

- 23) GENERAL SCIENCE Multiple Choice The moon moves around the earth traveling primarily:
- W) east to west
- X) north to south
- Y) west to east
- Z) south to north

ANSWER: Y) WEST TO EAST

TOSS-UP

mytitute the the training of t 24) MATH Short Answer If $a \neq 0$ (read as: a does not equal 0), what is the multiplicative inverse of *a*? Marithus Mar # 18 180 Militally And At 18 18 Marithus Mark 13 180 Marithus 教育 养 · 漢 序》

ANSWER:

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24) MATH *Short Answer* What is the square root of 169?

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ANSWER: 13

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25) EARTH SCIENCE Multiple choice The Tropic of Cancer lies at which of the following latitudes:

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W) 23 1/2° North

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1

Y.

Y.

1

Y.

Y.

1%

Y.

Y.

- X) 23 ½° South
- Z) 26 ½° South

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ANSWER: W) 23 1/2° NORTH

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BONUS

25) EARTH SCIENCE Short Answer Magma that reached the Earth's surface is called what? Marith Mar H & PR Implitute 素素 ·養 序》 motivite # 14 18 motitud # ** **

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ANSWER: LAVA

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