ROUND ROBIN 2

TOSS-UP

1) MATH *Short Answer* The sum of all the interior angles of a triangle equals how many degrees?

ANSWER: 180°

BONUS

1) MATH Short Answer What is the total angular distance in degrees over a sphere?

ANSWER: 360°

TOSS-UP

- 2) LIFE SCIENCE *Multiple Choice* During the life-cycle of amphibians, which is not a means through which respiration can occur?
- W) lungs
- X) air bladder
- Y) gills
- Z) skin

ANSWER: X) AIR BLADDER

BONUS

2) LIFE SCIENCE *Short Answer* In many arthropods, the segments of the body are grouped into 3 distinct parts. Name all three parts:

ANSWER: HEAD, THORAX, AND ABDOMEN

- 3) PHYSICAL SCIENCE *Multiple Choice* The electrical potential or power of a battery is an expression of its:
- W) amperage
- X) resistance
- Y) conductivity
- Z) voltage

ANSWER: Z) VOLTAGE

BONUS

- 3) PHYSICAL SCIENCE Multiple Choice A typical pair of scissors would be considered:
- W) a class one lever
- X) a class 2 lever
- Y) a class 3 lever
- Z) a form of inclined plane

ANSWER: W) A CLASS ONE LEVER

TOSS-UP

4) GENERAL SCIENCE Short Answer How many milliliters are in a liter?

ANSWER: 1000

BONUS

- 4) GENERAL SCIENCE *Multiple Choice* The Moon orbits the earth about once every:
- W) year
- X) day
- Y) month
- Z) century

ANSWER: Y) MONTH

- 5) MATH *Multiple Choice* The number 0.13 is written with a bar drawn over the last two digits. This means that:
- W) the number terminates at 3
- X) the pair of digits 13 repeats forever
- Y) the number 3 repeats forever
- Z) the number is negative

ANSWER: X) THE PAIR OF DIGITS 13 REPEATS FOREVER

BONUS

5) MATH *Short answer* The following number in Roman numerals is equivalent to what decimal number: CLXXXXIX

ANSWER: 199

TOSS-UP

- 6) EARTH SCIENCE *Multiple Choice* About what percentage of the Earth surface is covered by water?
- W) 33%
- X) 41%
- Y) 56%
- Z) 71%

ANSWER: Z) 71%

BONUS

6) EARTH SCIENCE *Short Answer* Name the equinoxes when day and night are of equal length around the world:

ANSWER: AUTUMNAL AND VERNAL EQUINOXES

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

TOSS-UP

- 8) EARTH SCIENCE *Multiple Choice* Metamorphism transforms limestone into a metamorphic rock called:
- W) quartzite
- X) marble
- Y) hornfel
- Z) granite

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

- 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) wrist
- Z) knee

ANSWER: X) EAR

BONUS

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

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?

ANSWER: POUNDS per SQUARE INCH

BONUS

- 10) GENERAL SCIENCE *Multiple Choice* Which planet does not have an element named after it?
- W) Uranus
- X) Mars
- Y) Mercury
- Z) Pluto

ANSWER: X) MARS

- 11) MATH Multiple Choice A parallelogram whose adjacent sides are unequal is a:
- W) deltoid
- X) rectangle
- Y) rhomboid
- Z) monogram

ANSWER: Y) RHOMBOID

BONUS

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 of sun light:
- W) the moon
- X) Mercury
- Y) Mars
- Z) the north star

ANSWER: Z) THE NORTH STAR

- 13) PHYSICAL SCIENCE *Multiple Choice* Metals that can be hammered into thin sheets are called:
- W) malleable
- X) ductile
- Y) molten
- Z) pure

ANSWER: W) MALLEABLE

BONUS

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

TOSS-UP

- 14) LIFE SCIENCE Multiple Choice Which of the following is an intracellular parasite:
- 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 in gripping and tearing
- W) incissors
- X) canines
- Y) molars
- Z) wisdom

ANSWER: X) CANINES

- 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

- 15) EARTH SCIENCE *Multiple Choice* Which of the following is a metamorphic rock:
- W) sandstone
- X) granite
- Y) quartz
- Z) marble

ANSWER: Z) MARBLE

TOSS-UP

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

ANSWER: 2

BONUS

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

ANSWER: -9

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

ANSWER: VENUS

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

- 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:
- W) 1000
- X) 1200
- Y) 1500
- Z) 1800

ANSWER: Z) 1800

- 19) LIFE SCIENCE Multiple Choice Which of these organisms in not a kind of worm?
- W) planerian
- X) fluke
- Y) leech
- Z) centipede

ANSWER: Z) CENTIPEDE

BONUS

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

ANSWER: PEPTIDE BOND

TOSS-UP

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

ANSWER: X) UNDEFINED

BONUS

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

ANSWER: 21

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

BONUS

- 21) PHYSICAL SCIENCE Multiple Choice Starch is made of what simple sugar?
- W) fructose
- X) mannose
- Y) glucose
- Z) ribose

ANSWER: Y) GLUCOSE

TOSS-UP

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:

ANSWER: A GLACIER

BONUS

- 22) EARTH SCIENCE *Multiple Choice* A flat-topped plateau bordered on all sides by cliffs is called a:
- W) hillock
- X) butte
- Y) drumlin
- Z) karst

ANSWER: X) BUTTE

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

ANSWER: 1000

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

24) MATH *Short Answer* If $a \neq 0$ (read as: a does not equal 0), what is the multiplicative inverse of a?

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

BONUS

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

ANSWER: 13

- 25) EARTH SCIENCE *Multiple choice* The Tropic of Cancer lies at which of the following latitudes:
- W) 23 1/2° North
- X) 23 1/2° South
- Y) 26 1/2° North
- Z) 26 1/2° South

ANSWER: W) 23 1/2° NORTH

BONUS

25) EARTH SCIENCE Short Answer Magma that reached the Earth's surface is called what?

ANSWER: LAVA