## ROUND ROBIN 1

TOSS-UP

1) LIFE SCIENCE Short Answer Living organisms are often divided into five Kingdoms. In which of the 5 Kingdoms would $E$. coli be classified?

ANSWER: MONERA

## 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

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
Z) crevasse (PRONOUNCE: crah-VAHSS)

ANSWER: Z) CREVASSE

## TOSS-UP

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) 2
Z) .2

ANSWER: X) 5

## BONUS

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

## TOSS-UP

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

4) MATH What is the integer value of $10^{5}$ divided by $10^{3}$ ?

ANSWER: 100 (DO NOT ACCEPT: $10^{2}$ )

## TOSS-UP

5) GENERAL SCIENCE Rickets, which was a common disease in the early twentieth century, is caused by a deficiency in what vitamin:
W) riboflavin
X) vitamin B12
Y) vitamin K
Z) vitamin $D$

ANSWER: Z) VITAMIN D

## BONUS

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

ANSWER: VITAMIN D

## TOSS-UP

6) EARTH SCIENCE Which of the following is present only where benthic organisms reside:
W) phytoplankton
X) zooplankton
Y) diatoms
Z) 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?

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

## TOSS-UP

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

## TOSS-UP

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

## TOSS-UP

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: $9 x-13=14$

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

## TOSS-UP

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

## TOSS-UP

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: $3 x+15=-12$

ANSWER: -9

## TOSS-UP

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

## TOSS-UP

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

## TOSS-UP

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 $4^{\circ} \mathrm{C}$

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

## TOSS-UP

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

## TOSS-UP

25) EARTH SCIENCE Multiple choice The Tropic of Cancer lies at which of the following latitudes:
W) $231^{1 / 2^{\circ}}$ North
X) $231 / 2^{\circ}$ South
Y) $26 \frac{1}{1} 2^{\circ}$ North
Z) $26 \frac{1}{2} 2^{\circ}$ South

ANSWER: W) $23 ½^{\circ}$ NORTH

## BONUS

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