ROUND ROBIN 6

TOSS-UP

- Marithle Mar Hr ' & PR 1) LIFE SCIENCE Multiple Choice Which of the following accounts for the largest increase in cancer death rate in the USA between the years 1900 and 1990: Millinin 教養 養 學 myjung par par 18 1800
 - W) lung

Y.

Y.

W.

W.

1

W.

Mylithe star of

- X) breast
- Y) colon
- Z) stomach

ANSWER: W) LUNG

BONUS, W. A.

1) LIFE SCIENCE Multiple Choice The structure of DNA proposed by Watson and Crick was partly based on the x-ray work of:

Implitute 新春 · 養 序。

Milling 素素 ·養 /家

Millite Mar H '3 PR

Maritanto 教育 养 · 溪 · 溪

Militale Market 18 18

Mariante An At 18 18

Milling 新春 · 溪 塚

Molitule At At 18 18

Marithus Mark 18 180

- W) Louis Pasteur
- X) Rosalind Franklin
- Y) Linus Pauling
 - Z) Eleonore Rubinstein

ANSWER: X) ROSALIND FRANKLIN

TOSS-UP

- 2) PHYSICAL SCIENCE Multiple Choice If light is passed through two pin holes and the patterns allowed to overlap on a wall, the pattern produced by the intersection of waves is called:
- W) an intersection pattern
- X) an interference pattern
- Y) an arcing pattern
- Z) a construction pattern

ANSWER: X) AN INTERFERENCE PATTERN

2) PHYSICAL SCIENCE Short Answer Add a second proton and two neutrons to the hydrogen nucleus and you have which element?

ANSWER

加加州 ANSWER: HELIUM (ACCEPT: He)

gitute 素 株 沒 序

- *3) GENERAL SCIENCE Multiple Choice To guard against sparks causing a fire, mechanics aboard submarines during World War II often used tools made from which of the following:
- W) chrome plated steel
- X) vanadium
- Y) cold rolled steel
- Z) bronze

Y.

1

W.

1

1

Y.

ANSWER: Z) BRONZE

BONUS

*3) GENERAL SCIENCE Multiple Choice The shape of galaxies, stars, planets and their orbits is mostly attributed to:

Myithin Mar # 13 1980

- w) light
- x) matter
- y) electricity
- z) gravity

ANSWER: Z) GRAVITY

TOSS-UP

4) MATH Short Answer What is the sum of the internal angles of a pentagon:

ANSWER: 540°

BONUS

Militale State 18 182

Stitute And At '5 PR

46 MATH *Multiple Choice* Assuming a year in a dog's life is equivalent to 7 years of a human's life, what is 1 hour of a dog's life approximately equivalent to in a human's life?

- W) 3 1/2 hours
- X) 7 hours
- Y) 5 hours
- Z) 4 ½ days

Stitute 新春·養 學

ANSWER: X) 7 HOURS

iting 紫斑 抹 淺 序》

gitute Mark if 180

Marithus Market 18 180

Marithus Market 18 180

Maritule Mark 18 18

Maitata Star 14 13 192

加加斯林等學

Imhiling 教教養學

Milling 新菜 · 養 序。

Militate the the light of the l

Delitate the 14 18 182

- 5) MATH Multiple Choice The longest straight line that can be drawn inside a circle is called its:
- W) radius

Y.

1%

Ph.

1

1

Ph.

Y.

- X) vector
- Y) tangent
- Z) diameter

ANSWER: Z) DIAMETER

BONUS

Marithus And At 15 1980

Militate 新春·養 際

Mylithin the the light of the

Maritally Market 13 1980

Milling 新春 · 養 序配

Myithin Mark 18 18

alitute 新春 茶 溪 序

5) MATH Short Answer If you walk north for 3 miles along 1st street and make a 90 degree right turn east onto B street and then walk for another 4 miles what would be the shortest distance back to where you started, if you could walk in a straight line?

ANSWER: 5 MILES

(Solution: 3, 4, 5 right triangle)

TOSS-UP

- 6) EARTH SCIENCE Multiple Choice If air masses move toward mountains from the west, Molitule Mark if the Misitate ** ** most of the moisture will fall on the
- W) north side of the mountains
- X) south side of the mountains
- Y) west side of the mountains
- Z) east side of the mountains

ANSWER: Y) WEST SIDE OF THE MOUNTAINS

BONUS

6) EARTH SCIENCE Short Answer Order the following periods of geological time from oldest Melitule Mit He 13 PR to youngest: Jurassic, Cambrian, Triassic,

ANSWER: CAMBRIAN; TRIASSIC; JURASSIC

加州縣

Stitute 新春·養 學

加加州海林海州

7) PHYSICAL SCIENCE *Short Answer* Which planet is the brightest when viewed from Earth?

ANSWER: VENUS

Y.

Y.

1%

Ph.

1

Y.

Y.

Mylitute At A Se Pic

Milling the 14 18 182

Millitte Am At 13 198

BONUS

7) PHYSICAL SCIENCE *Short Answer* If an atom of carbon has an atomic number of 6 and an atomic mass of 12.01, how many protons and neutrons are in the nucleus?

ANSWER: 6 PROTONS, 6 NEUTRONS

Millinto 新春 株 · 婆 序之

Militate At 18 18

加加拉斯林等學

TOSS-UP

8) LIFE SCIENCE *Short Answer* In the traditional 5 Kingdom classification of organisms, four of the 5 Kingdoms are Animalia, Plantae, Fungi, and Protista. What is the fifth?

ANSWER: MONERA

BONUS

2) LIFE SCIENCE *Short Answer* Give the scientific names for the four chambers of the human heart:

ANSWER: LEFT VENTRICLE, RIGHT VENTRICLE, LEFT ATRIUM, RIGHT ATRIUM (ACCEPT IN ANY ORDER)

Marithin the #4 '3' PR

Maritado Marita Maria Maria

Stitute the the is the

Militate At 14 18

Militate At 14 18

Molitule of the State of the St

Agitute state is 182

Stitute ## # '\$ PR

Marithus Market 18 18

Mainth the Harris 182

別補明教養養際

- 9) EARTH SCIENCE *Multiple Choice* Which of the following dominates the gasses in the Earth's atmosphere, making up some 78% of the air by volume:
- W) nitrogen
- X) oxygen
- Y) helium
- Z) hydrogen

ANSWER: W) NITROGEN

BONUS

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

1

1

1

1

ANSWER: X) MARBLE

TOSS-UP

10) GENERAL SCIENCE *Short Answer* This powerful telescope weighs about 11 tons, has a primary mirror 7.9 feet in diameter, and orbits about 380 miles above the earth:

ANSWER: THE HUBBLE TELESCOPE

BONUS

10) GENERAL SCIENCE *Multiple Choice* Which of the following is NOT commonly thought of as an input device:

Millute Man by 13 1980

- W) scanner
- X) printer
- Y) touch-screen video screen
- Z) speaker

Stitute 新春·養 學

ANSWER: X) PRINTER

Stitute And At 18 182

slitule ## # '\$ PS

Maitata Star 14 13 192

gitute 素 株 沒 序

Militale Market 18 182

Militale Market 18 182

Militate # # 18 18

Whith the 14 th 18 th

Agitute the the is the

- 11) LIFE SCIENCE Multiple Choice Which of the following is a feeding structure in arachnids:
 - W) dentipalps
 - X) radula

Y.

Y.

Y.

Ph.

1

1

W.

- Y) proboscis
- Z) chelicerae (PRONOUNCED Chill-iss-er-ah)

ANSWER: Z) CHELICERAE

BONUS

- 11) LIFE SCIENCE Multiple Choice In humans, ovulation usually occurs how many days before the start of the next menstrual period:
- W) 4
- X) 9
- Y) 14
- Z) 21

ANSWER: Y) 14

TOSS-UP

10) PHYSICAL SCIENCE Short Answer What color light is produced by adding equal amounts of red, green, and blue light? amounts of red, green, and blue light?

Militate # # 18 PR

Milling the 14 18 18

gitute Mark if 180

ANSWER: WHITE

10) PHYSICAL SCIENCE Short Answer Name the most common disaccharide, known as milk sugar, that is found in milk.

Millute Mark 13 198

剧神神教教養學

ANSWER: LACTOSE Maritule Market of Police Myithin the state of the state

训帅縣株據縣

Stitute ## # 'E PS

Mylithin the the 18 182

gitute 素 株 沒 序

Matinta And Art 'S

Marithus Market 18 180

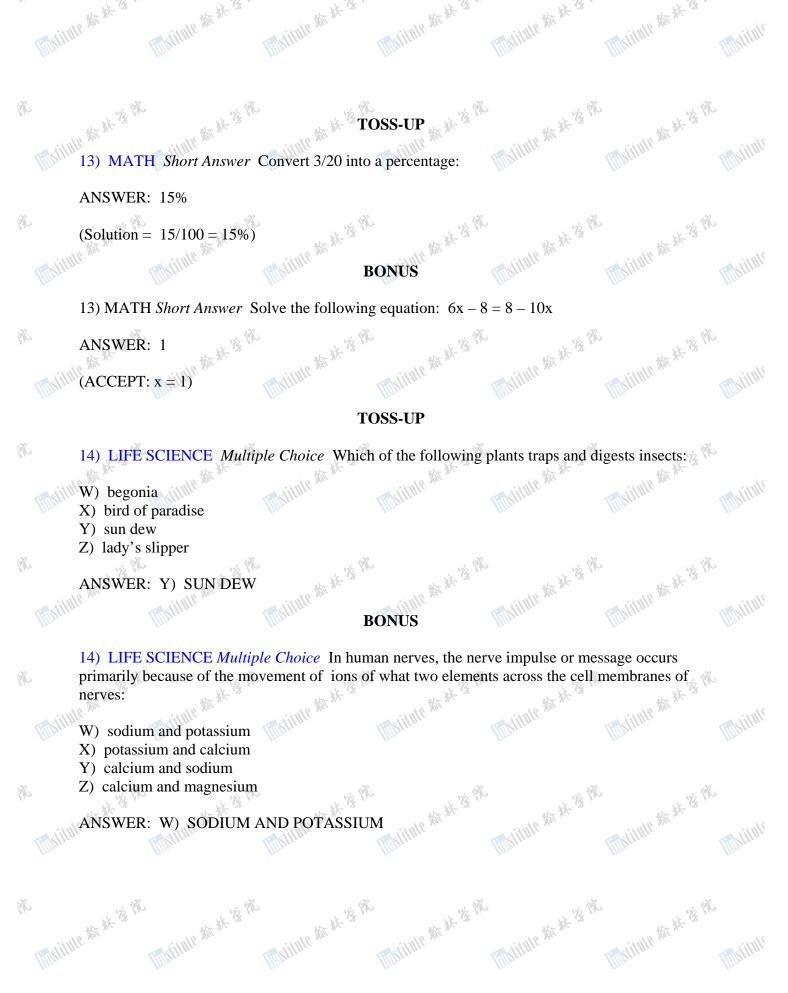
Militale Market 18 182

Marithus Market 18 180

Militale Market 18 18

Militale of the State of the St

Delitate the 14 18 182



W.

- *15) GENERAL SCIENCE Multiple Choice An autoclave would often be used by which of the following scientists?
- W) cosmologist
- X) microbiologist
- Y) paleontologist
- Z) philologist

Y.

ANSWER: X) MICROBIOLOGIST

BONUS

Marithu star st '3 18

Mythun 病 并接際

Militalia 教育教士養 序配

Militally 教育 养 · 淺 序》

Millite Mar H '3 PR

gitute 新春 茶 溪 序

15) GENERAL SCIENCE Short Answer Which ones, if any, of the following elements are liquids at standard temperature and pressure: chlorine, bromine, mercury, selenium?

ANSWER: BROMINE AND MERCURY

ΓOSS-UP

- 16) EARTH SCIENCE Multiple Choice What happened in 1815 to cause that year to be named "the year without a summer?"
- W) a large meteor struck the Earth

- Z) several large earthquakes occurred simultaneously around the globe

ANSWER: X) A LARGE VOLCANO ERUPTED

- 16) EARTH SCIENCE Multiple Choice When, in the geologic column, did dinosaurs become extinct?
- W) at the Cretaceous-Tertiary boundary
- X) at the Jurassic-Cretaceous boundary

- Y) at the Triassic-Jurassic boundary
- Z) at the Permian-Triassic boundary

ANSWER: W) AT THE CRETACEOUS-TERTIARY BOUNDARY

slithle to the sky is the

grithte 新春·養·豫

Y.

Agitute the the is the

- 17) GENERAL SCIENCE Multiple Choice The common mineral beryl, when found in its green crystalline form, is most commonly known as what gem stone:
 - W) emerald
 - X) opal

PA.

Ph.

1

1

W.

- Y) malachite
- Z) septantaine

ANSWER: W) EMERALD

BONUS

- 17) GENERAL SCIENCE Multiple Choice The unique property of carbon that is important to living organisms is its ability to:
- W) conduct electricity in graphite form.
- X) combine with other elements
- Y) form long chains of carbon atoms
- Z) exist as both diamond and graphite

ANSWER: Y) FORM LONG CHAINS OF CARBON ATOMS

TOSS-UP

18) MATH Short Answer Convert the decimal fraction 0.055 into its common fraction:

ANSWER: 55 (ACCEPTE 55/163)

(ACCEPT: $55/10^3$ and 11/200)

18) MATH Short Answer Solve the following equation: -2 + x = 5

Milate 新春等學

ANSWER: 7

Asitute Mark 18 182

gritute 素 养婆 序

Delitate the 14 18 182

Millate the the light of the

Matinta Ant 18 3

Milling 新春 · 達 / 第

Maritude star at 3

19) PHYSICAL SCIENCE Short Answer When Natalie rides in a circle on her horse she perceives a force which tends to throw her off her horse to the outside of the common name for this force. common name for this fictitious force center fleeing force:

ANSWER: CENTRIFUGAL FORCE

Military of the state of the st

BONUS

19) PHYSICAL SCIENCE Short Answer If an atom of gold has an atomic number of 79 and an atomic mass of 197, how many protons and neutrons are in the nucleus? Marith Mar H. 18 180 Imhiling 教育 养 婆 序

ANSWER: 79 PROTONS, 118 NEUTRONS

TOSS-UP

- IIIIIIIIIIIII 新洲 社 沒 序 20) LIFE SCIENCE Multiple Choice Which of the following is the organ mainly responsible for producing digestive enzymes and insulin:
- W) spleen
- X) liver

Milling 素素 養 一家

Millinin 教教教·蒙然

Mylithe # 3

Y.

PA.

1

1

1

1

W.

- Y) thyroid
- Z) pancreas

ANSWER: Z) PANCREAS

BONUS

Militin Art Art & PR

Milling 素素 ·養 /家

20) LIFE SCIENCE Short Answer Made up of barbs, calami, and shafts these are one of the Militally Militally 18 Milling 新春 紫 % most distinctive structures of the vertebrate class Aves.

ANSWER: FEATHERS

Milling 新春 · 養 · 豫

shitute 新春·養學

Mobilith And At 'S PR

Myithin Market 18 18

Marith Mar H & PR

Militale the the light of the l

- 21) PHYSICAL SCIENCE Multiple Choice Which of the following musical instruments can produce a pure tone:
 - W) violin

Y.

Y.

1

1

1

1

Ph.

W.

- X) clarinet
- Y) piano
- Z) electronic synthesizer

ANSWER: Z) ELECTRONIC SYNTHESIZER

BONUS

Milital Mark of Sec. 18

Maritally 教育 养 淺 序

21) PHYSICAL SCIENCE Short Answer Which is the lightest metal in the group known in the periodic table as the alkali metals?

ANSWER: LITHIUM (ACCEPT: Li)

TOSS-UP 🗺 🏋

22) EARTH SCIENCE Short Answer What is the name given to the tides that occur during the new moon and full moon?

ANSWER: SPRING TIDES

BONUS

Drithte Make 18 182

Stitute And At 's PR

Militate Market 18 182

Militalle Market 18 18

- Marithus 教教 林·溪 塚 22) EARTH SCIENCE Multiple Choice In limestone formations, the development of caves requires water and which of the following: Maritule # # 18 18 Militally Am At 13 18 Militate ## # 13 PR
- W) oxygen
- X) nitrogen

Millite the the light

- Y) carbon monoxide
- Z) carbon dioxide

Mikitute 横林·接风 ANSWER: Z) CARBON DIOXIDE Maritute Mark 13

jitule 教育 林 溪 豫

withthe Am At 13 182

Militation # # 18 18

Stitute 新春 养 · 接 序》

23) MATH *Short Answer* What is the formula for the volume of a sphere of radius R:

ANSWER: $\frac{4}{3} \pi R^3$

Mylithe star of

Y.

Y.

Y.

Ph.

Y.

1

Y.

W.

BONUS

23) MATH Short Answer Which of the following are rational numbers:

 $-8, -\sqrt{3}, 1/5, 0, \pi$ (pronounced: pie)

Matinta Mar 18

ANSWER: -8, 1/5, 0

24) GENERAL SCIENCE *Short Answer* What is the name for the outermost layer of the sun? Inditute 新春養療

ANSWER: CORONA

BONUS

24) GENERAL SCIENCE Short Answer Kevin wishes to look at the stars with his binoculars. He also wants to look at a star chart with a flashlight, but he knows a regular white light will interfere with the sensitivity of his eyes to dim light. What color light is best for his flashlight?

Maritule of the state of the st

Moritale And At 's PR

Maritule of the state of the st

Militale Market 18 18

Militale Market 18 182

Mobilithe And At 18 18

Mikituto Make 18 18

Myithin Market 18 18

ANSWER: RED

Milital Market & PR

Maritante Art 18 18

stitute 新林·蒙豫

Milling 素素 養 一家

Milling 素素 養 一家

Molitule ## # 18 18

Military of the state of the st

Marith Mar 44 18 198

Marith Mar 44 18 198

Millitte Mar H 13 1980

- 25) EARTH SCIENCE *Multiple choice* The typical thunderstorm clouds of summer, sometimes referred to as hammerheads or thunderheads, are called:
 - W) cumulonimbus
 - X) altocumulus

Y.

1

Y.

PA.

Y.

Y.

1

Ph.

W.

- Z) cirrocumulus

ANSWER: W) CUMULONIMBUS

BONUS

Maritally And At 's 182

Millite the 14 18 18

14. 14. 18 18

25) EARTH SCIENCE Multiple Choice About how far away is the closest star to the Earth?

Milling 素 基 · 该 然

Milling 素 基 · 该 然

Mikituto Make 18 18

Milling the 18 18

- W) 83 thousand miles
- X) 19 million miles
- Y) 93 million miles
- Z) 2 light years

Milling 新菜菜家

Mytitute 精 社 该 序

Moritally And At 18 18

Millinin Mar # 18 180

ANSWER: Y) 93 MILLION MILES

Milling 素素 ·養 /家

Maritante Art 18 18

Maritate Mark 13 18

油油物機構業際

Military of the committee of the committ

Marithus Market 18 180

Milling 教教教學

Milling 素素 ·養 「然

Marithin 教教教·蒙然

Militation # # 18 18

Muitata state is 180

Milling 素素 ·養 感

Molitule of the State of the St

Mikituto 横林塔原

Molitule of the State of the St

本本学家外