Straight A Quiz Questions 1613 Cherokee Dr.
Seneca, SC 29678

Show-Me Academic Challenge Spring 1994

## Game Twelve

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Round 1 - Toss Up : -
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## ip science

Name the chemical element which has an atomic number of 82 and an atomic mass of 207.

Lead Pb
2) Math (calculation)
tina has made grades of 88,96 , and 92 in algebra. What is the lowest grade can she make on her next test and still have an average of 90?

84

## 3. Social Studies

From the early stages of U.S. involvement in Vietnam until 1968, what army general was commander of U.S. forces in that theater of war?
william Westmoreland

## $4 \mathbb{N}$ Literature

What American author became popular.with the 1950 collection of stories The Martian Chronicles?

Ray Bradbury

## 59 Eine Arts

What American composer of popular songs in the early twentietin century wrote the songs "Over There", "You're a Grand Old Flag", and "Give My Regards to Broadway"?

George M. Cohan coe han
6 6 social studies
The troubled nation of Haiti has been in the news quite frequently in the last several years. Name the large island in the West Indies Which contains the nation of Haiti. The Dominican Republic is also located on this island.

Hispaniola
7 Math (calculation)
Factor the expression $x-256$.

$$
(x+16) \text { times }(x-16)
$$

## 8. Science

Which of the major biomes on earth is primarily located in bands about 10 degrees north and south of the equator?

Deserts

## 9. Literature

What $19 \bar{\sigma} \sigma$ Truman Capote novel was based on the true $\bar{s} t o r y$ of two men 'ho brutally murdered a family in the midwest?

In Cold Blood
क Home Economics
What is the term given to the process of cooking in which the food is Kept moist by spooning or brushing with a sauce or juice?

Basting
IN Math
What trigonometric function of an angle in a right triangle is defined s the hypotenuse of the triangle divided by the side adjacent to the angle?

Secant
$2 p$ Lanquage Arts
lf a spanish girl speaks of her "novio", to whom is she referring?
Her Boyfriend
$3 Q$ social studies
What future U.S. president was sent to France as a foreign minister uring the administration of Thomas Jefferson where he helped to negotiate the Louisiana Purchase?

James Monroe
4. Science

Give tie name for the scientific instrument which is used for cutting extramely thin sections of tissues for microscopic examination?

Microtome

## 5) Iuterature

: Greek mythology, who was the king of Corinth who was condemned to epeatedly zoll a huge stone up a nill from which it always rolled ack down?
sisyphus
iv science
What is the term used in chemistry to describe a substance which can be pressed or hammered very thin without breaking？

Malleable
Bonus 1－Math（Calculation）
What is the cube root of 1728？ 12
$2 N$ Convert the number 36 into base 2.100100
3．Convert the number 36 into base 16 ． 24
4 N What is the radius of a circle with a circumference of 25 pi ？
12.5

## $24^{\prime}$ soclal studies

Hat South American nation owns the Juan Fernandez Islancis，San Felix ［slands，and San Ambrosia Island in the eastern Pacific？

Chile
Bonus 2－Science
Name the planets of the solar system which have orbital periods of the ：cllowing lengths：
N 12 years－Jupiter
N 687 days－Mars
2f 88 days－Mercury
${ }^{4}$ N 164 years－Neptune

## $3{ }^{\prime}$ Literature

In what popular work by Mark Twain do you meet the character Hank Morgan，a mechanic who experiences a fantastic journey through time？

## A Connecticut Yankee in King Arthur＇s Court

## Borus 3－Fine Arts

f．What is the term for the text of an opera？
Libretto
$N$ as a virtuoso performer on what instrument did viadimir horowitz gain fame in the 20 th century？
Eiano

As a virtuoso performer on what instrument did Jascha He feiz gain
fame in the $20 t h$ century？ Violin

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- What composer wrote the Dante Symphony?
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N Math (calculation)
*Factor the expression $6 X^{2}+X-1$

$$
(3 x-1) \text { times }(2 x+1)
$$

## Bonus 4. - Literature

In which of Shakespeare's plays do you meet the following characters:

1. Orlando and Rosalind - As You Like It

20 Sebastian and Viola - Twelfth Night
N Iago and Desdemona - Othello
A. Antonio and Shylock - The Merchant of Venice

## If Fine Arts

Name the American artist, known for her primitive scenes of farm andcountry life in New England, who did not begin painting until age 77.

Anna May "Grandma" Moses

## Bonus 5 - Sports

For what NFL football teams did the following players star:
IN Dick Butkus - Chicago Bears
2. Ken Stäblez - Oakland Raiders (accept L.A. Raiders)

3N Frank Gifford - New York Giants
4. Jack Ham - Pittsburgh Steelers

## 6. Agriculture

Baby chickens are, of course, known as chicks. What is the term given to baby turkeys?

## Bonus 6 - Math

Simplify the following:

1. $3 x^{2}+26 x-9 / x+9-3 x-1$
2. $1 / \sec a n t x$ - Cosine $x$
3. Square root of $125-5$ square roots of 5
4. Cosine $(\mathrm{pi} / 2-\mathrm{A})-$ Sine A

## N Science

What is the term in geology, often confused with lava, which is given to molten rock which exists under the earth's surface?
ame the specific religious denomination professed by the following U.S. presidents:
N. Jimmy Carter - Baptist

2 2 Richard Nixon - Quaker
3 John $F$. Kennedy - Roman Catholic
4. Gerald Ford - Episcopalian
8. Literature

Name the 19th century English poet who is primarily remembered for his translation into English of the Rubaiyat of Omar Khayyam.

Edward Fitzgerald
Bonus 8 - Science
Name the chemical elements which have the following atomic numbers:. .

1. 7 - Nitrogen
2. 5-Boron
3. 19 - Potassium
4. 15 - Phosphorous

## IN Social studies

King Edward VIII abdicated the throne of England in 1936. What was the familial relationship of Edward to the current monarch, Elizabeth II?

Uncle

## Bonus 9 - Literature

Name the playwrights who created the following dramas:
iN Strange interlude - Eugene o'Neill
2N Cat on a Hot Tin Roof - Tennessee mililams
3. The Time of your Life - William Saroyan
4. Abe Lincoln in Illinois - Robert Sherwood
10) Math (calculation)

In a given right triangle, the side adjacent to a 60 degree angle has a length of 5 . What is the length of the hypotenuse of this triangle?

$$
10
$$

Bonus 10 - social studies
What U.S. states lie on the northern borders of the following states:

1. North Carolina - Virginia
$2 N$ New Mexico - Colorado
3N Nebraska - South Dakota
2. Mississippi - Tennessee

## Round 3-Toss Up

## 10 Social studies

Name the leading U.S. fighter ace of the First World War. He later served as president of Eastern Airlines.

## Eddie Rickenbacker

2 N Math (calculation)
What would be the volume of a cylinder having a radius of 4 inches and a height of 10 inches?

160 pi cubic inches

## $3 p$ Literature

What twentieth century literary figure, best known as a poet, wrote the 1935 verse drama Murder in the Cathedral?
T.s. Eliot

## $4 \|$ Science

What is the major type of rock found in a region which is described as having Karst topography? Sinkholes and caverns are characteristic of such an area.

Limestone
5. Language Arts

Noblesse oblige is a French word used in English to refer to the responsibilities of the upper classes to society. Spell noblesse oblige.

$$
\mathrm{N}-\mathrm{O}-\mathrm{B}-\mathrm{L}-\mathrm{E}-\mathrm{S}-\mathrm{S}-\mathrm{E} \quad \mathrm{O}-\mathrm{B}-\mathrm{L}-\mathrm{I}-\mathrm{G}-\mathrm{E}
$$

6. Math

What would be the measure of an angle in radians if it is in the second quadrant and the cosine of the angle is negative $1 / 2$ ?

$$
2 \mathrm{pi} / 3
$$

## 7 N Social studies

What is the more common name for Mount Godwin Austen, the second -highest mountain in the world?

$$
\text { K } 2
$$

A. Science

In what phase of mitosis in a human cell do the chromosomes separate and move to opposite ends of the cell?
in Greek mythology, who was the mortal mother of the Greek god Dionysus, the god of the vine?

Semele
IoN Eine Arts
What popular broadway musical was based on the play Anna and the king of siam?

## The King and I

$-$
$11 N$ Math (calculation)
Give the two real number solutions to the equation $x^{2}-3 x=10$

$$
x=5,-2
$$

12. Science

To the nearest minute, how much earlier each night does a given starrise as seen from the same location on earth?

4 minutes

## 13 P Home Economics

What herb, a member of the mint family, is characterized by broad, light green, oval leaves which release a spicy scent when bruised? A good source of beta-carotene, this herb is an ingredient of many tomato-based dishes, such as pizza and spaghetti sauces.

Basil

## $14 \sqrt{\text { Literature }}$

What famed literary character, possibly the most popular in literary history, was killed off by his author in the 1893 story The Final peoblem, in which the character and his nemesis both fell over a waterfall? Public demand led to his revival.
? Rickarbackor Fall
Sherlock Holmes

## 15 N Social studies

What U.S. evangelist, founder of the Christian Broadcasting Network, made an unsuccessful attempt to gain the Republican presidential nomination in 1988?

Pat Robertson
700 clu

Round 4 - Toss Uo/gonus
IN Literature
What American author wrote the 1842 collection of stories entitled Twice-Told Tales?

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_nus.1 - Social studies
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Name the secretaries of state who served under the following united States presidents:

- IN Gerald Ford - Henry Kissinger

2. John F. Kennedy - Dean Rusk
?. Thomas Jefferson - James Madison
$4 N$ Abraham Lincoln - William H. Seward
$2 N$ Math
Angle $A$ is in the second quadrant of a Cartesian plane. What two trigonometric functions of angle A will be positive?

> Sine and Cosecant

Bonus 2 - Science

$$
+2
$$

1P. What element is produced by alpha decay of plutonium?
Uranium
2 N What isotope of uranium is the fissionable material in a nuclear reactor?
$u-235$
$3 \uparrow$ What physicist first measured the charge of an electron?
Robert Millikan
N Give the chemical formula for the hydrocarbon octane.
C8 H18
3. Science

What is the name for the set of lines in the visible part of the spectrum of atomic hydrogen?

Balmer Lines (Balmer Series)

## Bonus 3 - Lanquage Arts

Give the full meanings of the following acronyms:

1. RaDAR - Radio Detection and Ranging
2. WHO - Morld Health Organization
.3. SaLT - Strategic Arms Limitation Treaty (or Talks)
3. NASA - National Aeronautics and Space Administration

## 4. Social stucies

In what African nation was Jonas Savimbi a guerrilia leader from the 1960's into the 1980's? He was the leader of an organization known as UNITA.

1. What types of human cells contain axons and dendrites?

Nerve Cells (Neurons)
2. A disorder of what endocrine gland causes the disease cretinism in humans?

Thyroid
3. What are the microscopic units of the kidney called in medicine?

Nephrons
4. Name the eye disorder in which the lens becomes opaque.

Cataracts

## 59 Language Arts

What is the date if a spaniard says that it is "el primero de enéro"? January 1

Bonus 5- Math (calculation)
Simplify the following:
If $1 /$ sine $A$ - Cosecant $A$
$2 N$ cotangent ( $p i / 2-A$ ) - Tangent $A$
$3 P 3 x^{2}+14 x+15 / x+3-3 x+5$
$4 \rho \operatorname{Tan} A+\operatorname{Tan} B / 1-\operatorname{Tan} A \operatorname{Tan} B-\operatorname{Tan}(A+B)$
$6 N$ Math (calculation)
On a Cartesian plane, what is the distance between the points (5,5) and $(2,1)$ ?

$$
\text { Square root of } 32 \text { or } 4 \text { square roots of } 2
$$

Bonus 6 - Science
Give the chemical formulas for the following:

4. Ammonium NH 4 Clot
N. Sports

What member of the New York Mots major league baseball team was arrested in 1993 for throwing a large firecracker into a group of fans?

## Bonus 7 - Literature

Name the poets who wrote the following poems:
17 "The Village Blacksmith" - Henry Wadsworth Longfellow
2. "Elegy written in a country churchyard" - Thomas Gray
3. "A Song for st. Cecelia's Day" - John Dryden
4. "Spring and Fall to a Young Child" - Gerard Manley Hopkins
priest

## $8 \varphi$ Science (oalcutahon)

An electrical circuit has a total resistance of 8 ohms. If the current through the circuit is 2 amperes, what is the voltage of the circuit?

$$
16 \text { volts }
$$

## Bonus 8 - social studies

In what U.S. states are the following colleges and universities located:

1Q. Loyola Marymount University - California
2. Brown University - Rhode Island
3. Lenoir-Rhyne College - North Carolina
4. Morehead state University - Kentucky

## 9. Ifterature

What 1890 Henrik Ibsen play contains the characters Thea Elvsted and Eilert Lovberg?

## Hedda Gabler

## Bonus 9 - Math

Factor the following expressions:

1. $9_{2}^{2}-16[-(3 x+4)$ times $(3 x-4)$
2. $x_{3}^{2}+4 x_{2}+3[-(x+3)$ times $(x+1)$
3. $X_{2}+5 x^{2}+6 x[-x$ times $(x+3)$ times $(x+2)$
4. $x^{2}-1 \quad[(x-i)$ times $(x+i)$
$10 \ell$ social studies
Who was the first Tudor king of England? He defeated Richard II at Bosworth Fiela in 1485 .

## Bonus 10 - Literature

In what works of literature do you meet the following:
1P Jean valjean - Les Miserables
2 A Simon Legree - Uncle Tom's Cabin
3. Jabez stone - The Devil and Doniel Webster

A Mr Danalines - randias

## Toss Up

## Science

Assuming everything else is normal, how many chromosomes are in each cell of an individual who suffers from Down's syndrome?

Math
What would be the slope of a line having the equation $3 X-4 Y=15$ ?

$$
3 / 4
$$

## Social studies

Name the three U.S. states which lie on the southern border of the state of Tennessee.

Mississippi, Alabama, Gequgia

## Ifterature

Name the Thane of Fife in Shakespeare's Macbeth who eventually kills the title character.

Macduff

## Fine Arts

Name the famous American artlst who created the work Campbell's Soup Can With Pealing Label. He was a leader of the pop art movement in. the mid-twentieth century.

Andy Warhol

## Language

An archaeologist is a scientist who researches ancient civilizations. Spell archaeologist.

$$
A-R-C-H-A-E-O-L-O-G-I-S-T
$$

Misc-Sports
In tennis, what is the minimum number of points which a player must win to win a set?

$$
24
$$

## Bonus

Science
Identify the following subatomic particles:

1. An electrically neutral particle with large mass - Neutron
2. A negatively charged particle with very iow mass. - Electron
3. Antiparticle of an electron - positron
4. Positively charged particle with 1835 times the mass of an electron - Proton

## Math (calculation)

Answer the following in Roman numerals:

1. VII times VIII - LVI
2. LXV divided by $V$ - XIII
3. XXVII plus XVII - XLIV
4. CCLXXXIV minus CXVII - CLXVII

## Social Studies

Name the years in which the following events occurred:

1. Germany invaded Poland to begin the Second World War - 1939
2. The Treaty of Versailles was signed - 1919
3. Napoleon was defeated at Waterloo - 1815
4. A hurricane killed over 6,000 people in Galveston, Texas - 1900

## Literature

Identify the following figures from Greek mythology:

1. God of wine - Dionysus
2. King of Sparta and husband of Helen - Menelaus
3. Father of the Titans - Uranus
4. Nymph changed to reeds by pan - Syrinx

## Fine Arts

Name the artists who created the following works:

1. Sistine Madonna - Raphael
2. The Tempest - Giorgione
3. Nighthawks - Edward Hopper
4. Prima Ballerina - Edgar Degas

## Language

Spell the following terms:

1. Assassination $-A-S-S-A-S-S-I-N-A-T-I-O-N$
2. Hygienic - $\mathrm{H}-\mathrm{Y}-\mathrm{G}-\mathrm{I}-\mathrm{E}-\mathrm{N}-\mathrm{I}-\mathrm{C}$
3. Temporarily - $T-E-M-P-O-R-A-R-I-L-Y$
4. Mayonnaise - $\mathrm{M}-\mathrm{A}-\mathrm{Y}-\mathrm{O}-\mathrm{N}-\mathrm{N}-\mathrm{A}-\mathrm{I}-\mathrm{S}-\mathrm{E}$

## Misc-Home Economics

Give the numbers for the following:

1. Number of fluid ounces in one gallon - 128
2. The number of teaspoons in one fluid ounce - 6
3. Number of quarts in a bushel - 32
4. Number of quarts in a magnum - 2
