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

Show-Me Academic Challenge
Spring 1994

## Game Seven

Round 1 - Toss Up


Name the famous physicist of the early 20 th century who is credited with developing the modern quantum theory of matter.

Neils Bohr

## 2. Social studies

Name the largest naval battle of the first morld war. It was basically a dray between the Erltish and German fleets.

- the both lost about cqual t at craft, but since
Britair had more to begin with, Britair caure out a Battile of Jutland

3. Math (calculation)

Name the three consecutive odd integers whose sum is 63.

$$
19,21,23
$$

4. Literature

Name the Amezican author of the 1936 novel Absalom, Absalomi.
William Faulkner
5. Fine Arts

What is the term given to a painting of inanimate subject matter, such as fruit, bowls, or flowers? ,

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                                    Still Life
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6. Social Studies

In psychology, what is the term given to the disorder when a person is unable to resist the impulse to steal?

Kleptomania
7. Math (calculation)

A suit normally sells for $\$ 240.00$. At this price the store makes a profit of $\$ 80.00$. If the suit is reduced in price by $25 \%$ in a sale, how much profit will the store be making at the new price?

- Science
e stamen is the male reproductive structure of a flower. Give e name of the structure at the top of a stamen in which pollen is tally produced.

Anther

- Literature

During the Trojan War in Greek mythology, what Trojan fired the arrow itch struck Achilles in his vulnerable heel and killed him?

Paris

- Agriculture

Name the most common breed of dairy cow in the united states. Over
\% of the dairy cows in the country are of this breed.
Holstein (Holstein-Freisen)

- Math -Ca / culatoon

Give both the sine and the cosine of an angle of 270 degrees.

$$
\operatorname{sine}=-1, \operatorname{cosine}=0
$$

## !. Language Arts

What is the term in grammar given to words such as "yes," "no," and in" when they are individually placed in a piece of writing and do it function as a part of speech in a sentence?

Interjections

## 3. Social studies

Name any two of the three South American nations which share a border lh both Brazil and Argentina.

Bolivia, Paraguay, Uraguay
4. Science

An alpha particle is a common form of radioactive emission. How many protons and how many neutrons compose an alpha particle?

2 Protons, 2 Neutrons
5. Literature

Name the American playwright who wrote the dramas Mingles Victory, Key Largo, and Hinterset.

Maxwell Anderson
Sacco-Vanzetti

1. Science
The eccentricity of a planet's orbit is a measure of how much theorbit differs from a circle. Which of the nine major planets of thesolar system has the most eccentric orbit?Pluto
Bonus 2 - Math (calculation)
2. What is the square of the sine of a 60 degree angle?
$3 / 4$ or . 75
3. What is the measure of an angle in degrees if it has a radianmeasure of pi/12?15 degrees
4. What is 7 factorial divided by 4 factorial?210
5. Give the value of e to four decimal places.2.7182
6. Social Studies
What U.S. political party nominated Henry Clay for president in 1844 ?Whig
Bonus 2-Science
Give the proper names for the studies of the following subjects:
7. Insects - Entomology
8. Tissues - Histology
9. Fossils - Paleontology
10. Fish - Ichthyology
11. Literature
Name the flamboyant and controversial author who wrote the 1891 novelThe picture of Dorian Gray.
Oscar Wilde
Bonus 3-Fine Arts
Nane the composers of the following ballets:
12. Appalachian Spring - Aaron Copland
13. Swan Lake - P.I. Tchaikovsky
14. Petrushka - Igor Stravinsky
15. The Mizaculous Manderin - Bela Bartok
16. Math (calculation)

What is $4 X$ if $3 X-5=x+8$ ?

## Bonus A - Literature

Name the muses of Greek mythology who were considered to preside over the following:

1. Epic Poetry - Calliope
2. Astronomy - Urania
3. Love Poetry - Ĕrăto
4. Dance - Terpsichore

Ter" sic
5. Health

Name the drug, a derivative of opium, which is used in prescription cough medicines and as a pain reliever?

> Codeine

## Bonus 5 - Social Studies

Name the capitals of the following countries:

1. Dominican Republic - Santo Domingo
2. Venezuela - Caracas
3. Nigeria - Lagos (Abuja)
4. Rumania - Bucharest
5. Ene Arts

Name the 17 th century artist from Delft, Holland who created the works The Kitchen Mali and Young woman with a Water Jar.

Jan Vermeer

## Bonus 5 - Sports

Name the head coaches (as of the 1993 season) of the following NFL football teams:

1. Dallas Cowboys - Jimmy Johnson
2. Miami Dolphins - Don Shula
3. Buffalo Bills - Mary Levy
4. New England Patriots - Bill Parcels

## 7. Social Studies

The Berlin Wall was destroyed during the administration of George Bush. What U.S. president was in office when this wall was erected?

Bonus 7 - Math (calculation)
Convert the following degree measurements to radians:

1. 120 degrees - $2 \mathrm{pi} / 3$ \& 2 pi ourr 3 :
2. 170 degrees - $17 \mathrm{pi} / 18$
3. 315 degrees - $7 \mathrm{pi} / 4$
4. 54 degrees - $3 \mathrm{pi} / 10$

## 8. Science

The zenith is the point in the sky directly above the observer. What is the term given to the point directly below the observer, opposite from the zenith?
Nadir

## Bonus 8 - social studies

Name the states in which the following U.S. presidents were born:

1. John Adams - Massachusetts

- 2. Ulysses S. Grant - Ohio

3. James Buchanan - Pennsylvania
4. Millard Fillmore - New York
5. Math (calculation)


Divide the expression $2 x+2 x^{2}-x-1$ by $x+1$ and give the result.

$$
2 x^{2}-1
$$

## Bonus 9 - Iterature

Name the novels in which you meet the following characters:

1. Paul More1 - Sons and Lovers
2. Harry Haller - Steppenvolf
3. Hetty Sorel - Acam Bede
4. Chadwick Newsome - The Ambassadors

## 10. Literature

Which of Shakespeare's plays, subtitled What You Will, contains the characters Sebastian and Viola who are separated after a shipwreck?

Twelfth Night
Bonus 10-science
Name the scientists who discovered the following:

1. First pollo vaccine - Jonas Salk
2. Peniciliin - Alexander Fleming
3. Radioactivity - Henti Becquerel
4. Electromagnetic Theory of Light - James Maxwell

## Round 3 - Toss Up

1. Social studies

Based upon population, what is the largest city in the state of Tennessee?

Memphis
2. Math (calculation)

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2
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Factor the expression $2 x+9 x+4$.

3. Literature

Name the creature of Greek mythology which sprang from the blood of the slain Medusa.

Pegasus
4. Science

What is the term in blology for the polymer of glucose which forms the majority of plant cell walls?

Cellulose

## 5. Language_Arts

What Latin term, literally meaning "another self," is used in English to refer to someone's extremely close frlend or to a completely distinct side of one's personality?

Alter Ego
6. Math (calculation)

Solve the following simultaneous equations for $X$ and $Y$ : $X+2 Y=8, \quad X+Y=5$

$$
X=2, Y=3
$$

## 7. Social studies

What British military officer, the last viceroy of India, was assassinated in 1979 by the Irlsh Republican Army when they planted a bomb aboard his yacht?

Louis Mountbatten

## 8. Science

What German astronomer and mathematician/of the early lifth century was the first to discover that planets travel in elliptical orblts around the sun?

## 9. Litegature

Name the nineteenth century American author who wrote the books An old-Fashioned Girl, Eight Cousins, and Little Women.

Louisa May Alcott

## 10. Eine Arts

What popular Rogers and Hamerstein musical was based upon the literary work Green Grow the Lilacs? This musical was also made into a successful film.

Oklahoma!
11. Math (calculation)

Find the square root of 1225.

## 12. Science

The Earth's moon ranks fifth in size among the moons of the solar system. Name the largest moon. It orbits the planet saturn.

Titan
13. Retver's Education
U.S. traffic signs have been standardized to different shapes. what type of shape is a standard hazard-warning sign?

Diamond

## 14. Literature

Name the Greek dramatist of the fifth century B.C. who wrote of the queen of troy in his tragedy Hecuba.

Euripedes

## 15. Social Studies

James Baker is most famous for his position as Secretary of state under President Eush, but what cabinet position did Baker hold in the second administration of Ronald Reagan?
Secretary of the Treasury

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Round 4 - Toss Up/Bonus
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## 1. Literature

Name the popular author who wrote the story "The Ugly Ducking."
Hans Christian Andersen

## Bonus 1 - Social Studies

From what U.S. states, then Eritish colonies, were the following signers of the Declaration of Independence:

1. Alexander Hamilton - New York Ft. Mathoury! Star-Spangled Bauner
2. Robert Morris - Pennsylvania
3. William Few - Georgia

## 2. Math (calculation)

Find the numerical average of the following five numbers: 101, 105, 107, 111, and 115.

$$
\text { Ave }=107.8
$$

Bonus 2-sclence
List the four chemical elements which begin with the letter 1.

> Iodine, Irldium, Indium, Iron
3. Social studles

The small island nation of Trinidad and Tobago lies just off the coast Jf what South American nation?

## Venezuela

Bonus 3 - Language Axts
ive the meanings of the following Latin roots:

- Mal - Bad
- Tact - Touch
- Gest - Carry
- Lapi - stone


## - Science

Find the speed, to the nearest meter per second, of a brick four se conds after it has been dropped from a hich building. Ignoze air Mesistance.

## Bonus 4 - Health

1. What is the largest bone in the human body?

Femur (Thigh)
2. What is the term for the long extension of a neuron which transmits 'information?

## Axon

3. What is the term for the short extenions of a neuron which secery information?

Dendrites
4. What is the term for the uppermost portion of the small intestine?

Duodenum
5. Lanquage Arts

What is the term in grammar given to a sentence which consists of one or more dependent clauses and two or more independent clauses?

Compound-Complex Sentence
Ronus 5 - Math (calculation)
Write down the following list of numbers: 18, $16,16,14,12,10,5$. Give the following statistical quantities from this list:

1. The mean - 13
2. The median - 14
3. The mode - 16
4. The range - 13
5. Math (calculation)

In terms of pi cubic inches, what would be the volume of a cone having a base of radius 3 inches and a height of 5 inches?

15 pi cubic inches
Bonus 6 - Science
Give the celsius temperatures which correspond to the following Fahrenheit temperatures:

1. 32 degrees $F$ - 0 degrees $C$
2. 212 degrees $F$ - 100 degrees $C$
3.     - 40 degrees $F$ - - 40 degrees $C$
4. 68 degrees $F-20$ degrees $C$
5. Health

Thich of the human endocrine glands is known as the "master gland" ince it helps control other glands in the body?

## Bonus 7-Literature

Name the American authors who created the following works:

1. The Executioner's Song - Norman Mailer
2. The Turn of the Screw - Henry James
3. The Winds of War - Herman Wouk
4. The Natural - Bernard Malamud *

## 8. Science

An object with a mass of 2 kilograms is moving at a velocity of 3 meters per second. Find the kinetic energy in joules which the object possesses.

9 Joules

## Bonus 8 - Social Studies

Name the U.S. presidents who were inaugurated into office for the first time in the following years:

1. 1901 - Theodore Roosevelt
2. 1877 - Rutherford $B$. Hayes
3. 1921 - Marren Harding "Little Magician"
4. 1837 - Martin Van Buren

## 9. Literature

What ancient Greek authox created the famous comedy The Frogs, considered to have been written in 405 B.C..

Bonus 9 - Math

1. Give the number 87 in Roman numerals.

## LXXXVII

2. 17 is $20 \%$ of what larger number? 85
3. What is the square root of 576? 24
4. Yhat is the cube root of 512? 8

## 10. Social studies

What is the term for the branch of philosophy which investigates the origin, structure, and validity of knowledge?

Epistemology
Bonus 10 - Literature
fame the English poets who wrote the following:
. "My Last Duchess" - Robert Browning

- "Ash Wednesday" - T.S. Eliot
- "Rikki-Tiki-Tavi" - Rudyard Kipling


## Replacement ouestions - Round 7

## Toss Up

## Science

Name the chemical element which comprises approximately $47 \%$ of the earth's crust.

Math (calculation)
$3 x^{3}-2 x^{2}+7 x-2$
Give the first derivative of the expression $3 X-2 X+7 X-2$

$$
9 x^{2}-4 x+7
$$

## Social Studies

What U.S. naval officer became the first person to fly over both the north and south poles in the early twentieth century?

> Richard Byrd

## Literature

Name the British poet who wrote the poem "Ode to a Nightingale."

John Keats

## Eine Arts

Name the Russian composer of the popular ballet Swan Lake.
P.I. Tchaikovsky

## Language

The French term "de rigueur" means in good taste or according to proper etiquette. Spell de rigueur.

$$
D-E \quad R-I-G-U-E-U-R
$$

## Misc-Sports

Name the last player in major league baseball to have a batting average over .400 for a full season. He accomplished this feat in 1941.

Ted Williams

Bonus
Science
Name the geologic eras in which the following periods are a part:

1. Jurassic - Mesozoic
2. Devonian - Paleozoic
3. Tertiary - Cenozoic
4. Silurian - Paleozoic

Math (calculation)
Convert the following numbers to base 16 :

1. $17-11$
2. $22-16$
3. $32-20$
4. $84-54$

## Social Studies

Name the men who became U.S. presidents in the following years:

1. 1850 - Millard Fillmore
2. 1829 - Andrew Jackson
3. 1897 - William McKinley
4. 1909 - Hilliam Howard Taft

## Literature

Name the poets who wrote the following poems:
Ulanne.

1. "Ulalume" - Edgar Allen Poe
2. "The Road Not Taken" - Robert Frost
3. "Journey of the Magi" - T.S. Eliot
4. "Felix Randal" - Gerard Manley Hopkins

## Fine Arts

Give the original nationalities of the following composers:

1. Claude Debussy - French
2. Anton Dvorak - Czech
3. Joseph Haydn - Austrian
4. Ludwig von Beethoven - German

## Lanquage

Give the meanings of the following Greek roots:

1. Ortho - Straight (or correct)
2. Anthrop - Man
3. Dencro - Tree
-4. Soph - Wise

## Misc-Health

Name the body organs which perform the following functions:

1. Connects the mouth to the stomach - Esophagus
2. Covers the trachea during swallowing - Epiglottis
3. Produces Progesterone - Ovaries
4. Produces prolactin - Pituitary Gland
