

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

Show-Me Academic Challenge  
Spring 1994

Game Eight

Round 1 - Toss Up

1. Science

What term is given to the amount of heat required to raise the temperature of one pound of water one degree Fahrenheit?

British Thermal Unit

2. Social Studies

Name the leader of the 1676 uprising of Virginia planters against British Governor Berkeley. This leader was killed and many of his followers were executed.

Nathaniel Bacon

3. Math (calculation)

Find the number of square inches in three square feet.

432

4. Literature

What nineteenth century English author wrote the novels Felix Holt, Middlemarch, and Adam Bede?

George Eliot

5. Fine Arts

What family of musical instruments contains the flute, the oboe, and the clarinet?

Woodwinds

6. Social Studies

What American philosopher, known primarily for his influential views on education, was the leading exponent of the philosophy of pragmatism in the late nineteenth century?

John Dewey

7. Math (calculation)

Using  $i$  as the imaginary number, what is  $(2 - i)$  quantity squared?

$3 - 4i$

. Science

A rocket is fired upward. It moves through the troposphere. What is the next layer of the atmosphere which it will enter?

The Stratosphere

. Literature

What literary figure of the nineteenth century wrote the poem "The Hunting of the Snark"?

Lewis Carroll

0. Home Economics

What bitter tasting herb, made from a plant commonly known as coffeeweed, is often used as an additive in coffee or even as a coffee substitute? It smells like coffee, but has no caffeine.

Chicory

1. Math (calculation)

Give the first derivative of the expression  $3X^3 - 7X + 5$

$9X^2 - 7$

.2. Language Arts

What is the term in grammar given to the use of a word which sounds like its meaning, such as "hiss" or "buzz"?

Onomatopoeia

13. Social Studies

You fly on a direct flight from Tallahassee, Florida to Richmond, Virginia. Other than Florida and Virginia, over what three U.S. states will you fly?

Georgia, South Carolina, North Carolina

14. Science

(he posited life on Mars!)

In what field of science did the controversial American Percival Lowell rise to fame in the late nineteenth century?

Astronomy

15. Literature

In Greek mythology, the Fates were powerful goddesses who had great influence over the lives of men. Which of the Fates was the weaver of the thread of life?

Clotho

Round 2 - Toss Up/Bonus

1. Science

Name the nuclear physicist who achieved the world's first controlled chain reaction at the University of Chicago in 1942.

Enrico Fermi

Bonus 1 - Math

Convert the following Roman numerals to standard base ten numerals:

1. MMI - 2001
2. DCCVII - 707
3. CXXXIX - 139
4. CMXCIX - 999

2. Social Studies

Name the German pocket battleship which was defeated by a force of British cruisers in the Battle of the River Plate in December of 1939.

Graf Spee

Bonus 2 - Fine Arts

Name the artists who created the following works:

1. Liberty Leading the People - Eugene Delacroix
2. Luncheon on the Grass - Edouard Manet
3. I and the Village - Marc Chagall
4. The Scream - Edvard Munch

3. Literature

In what classic novel by what American author do you meet the character Tom Joad?

The Grapes of Wrath by John Steinbeck

Bonus 3 - Science

Name the inventors who are credited with the discoveries of the following useful items:

1. Bifocal Glasses - Benjamin Franklin
2. Mercury Thermometer - Gabriel Fahrenheit
3. Air Brake - George Westinghouse
4. Commercially Viable Frozen Food - Clarence Birdseye

4. Math (calculation)

In terms of pi cubic inches, what would be the volume of a cylinder with a radius of 2 inches and a height of 5 inches?

20 pi cubic inches

Bonus 4 - Literature

Identify the following personalities from Greek mythology:

1. Daughter of Agamemnon - Electra
2. Father of Atlas - Iapetus
3. Husband of Atalanta - Hippomenes
4. Father of Oedipus - Laius

5. Agriculture

What is the term in farming given to land which is left idle to restore its productivity by accumulation of water and nutrients? This is a common practice in modern agriculture.

Fallow

Bonus 5 - Social Studies

In what wars were the following battles fought:

1. Battle of Anzio - World War II
2. Battle of Manila Bay - Spanish-American War
3. Battle of the Ebro - Spanish Civil War
4. Battle of Ia Drang - Vietnam War

6. Fine Arts

Name the American composer of popular music who wrote the song "Moon River", featured in the movie Breakfast at Tiffany's. He also wrote the familiar "Pink Panther Theme".

Henry Mancini

Bonus 6 - Sports

For what NFL football teams did the following men play in 1993:

1. Michael Ervin - Dallas Cowboys
2. Thurman Thomas - Buffalo Bills
3. Andre Rison - Atlanta Falcons
4. Morten Anderson - New Orleans Saints

7. Social Studies

In what country is the highest waterfall in the world located? It is known as Angel Falls and is over 3,000 feet high.

Venezuela

Bonus 7 - Math (calculation)

1. Give the measure of a 100 degree angle in radians?

5 pi/9

2. What is the sine of a 300 degree angle?

Negative square root 3/2

3. Find the square root of 529.

23

4. Convert the base ten number 17 to base eight.

21 (2 dash 1)  
(or 2 1)

8. Science

Name the unit of frequency used in science. It is equal to one cycle per second.

Hertz

Bonus 8 - Literature

In what famous novels of English literature do you meet the following characters:

1. The Artful Dodger - Oliver Twist
2. Mr. Rochester - Jane Eyre
3. Leopold Bloom - Ulysses
4. Becky Sharp - Vanity Fair

9. Math (calculation)

Solve the following simultaneous equations for X and Y:

$$4X - 2Y = 2, \quad X + Y = 8$$

$$X = 3, \quad Y = 5$$

Bonus 9 - Social Studies

Of what U.S. cities did the following people serve as mayor during part of the 1980's:

1. Ed Koch - New York
2. Tom Bradley - Los Angeles
3. Marion Barry - Washington DC
4. Kathy Whitmire - Houston

10. Literature

What daughter of Brabantio is the innocent and lovely heroine of Shakespeare's Othello?

Desdemona

Bonus 10 - Science

Name the astronomical constellations which represent the following:

1. Ram - Aries
2. Whale - Cetus
3. Dolphin - Delphinus
4. Wolf - Lupus

Round 3 - Toss Up

1. Social Studies

What Zionist leader became the first prime minister of Israel in 1949 after fighting in the 1948 war for independence?

David Ben-Gurion

2. Math (calculation)

Factor the following expression:  $3X^2 - 7X - 6$

$(3X + 2)$  times  $(X - 3)$

3. Literature

What early American author wrote the 1830 story The Water Witch, influenced by his years in the U.S. Navy?

James Fenimore Cooper

4. Science

The Calvin Cycle is a major part of what general biological process which is necessary for virtually all life on earth?

Photosynthesis

5. Language Arts

Give the Spanish word for the month of January.

Enero

6. Social Studies

What amendment to the U.S. Constitution gives an accused person the right to confront the witnesses against him?

Sixth Amendment

7. Math (calculation)

Solve the following equation and state your answer as a mixed numeral in lowest terms:  $5X - 9 = 3X - 20$

$X = -5 \frac{1}{2}$

8. Science

What is the term given to the stream of electrically charged particles moving outward from the sun? Variations in this stream can cause magnetic storms and aurora on earth.

Solar Wind

9. Literature

What English author wrote the 1819 novel The Bride of Lammermoor, published as part of the series Tales of My Landlord?

Sir Walter Scott

10. Fine Arts

Name the Hungarian composer of the nineteenth century, a world-famous pianist during his lifetime, who is remembered as the composer of Hungarian Rhapsodies.

Franz Liszt

11. Math (calculation)

Susan has made 87, 85, 96, and 91 on her first four math tests. What grade must she make on the next test to have an average of 90?

91

12. Science

Literally meaning "self-feeder", what term in biology is used to refer to organisms which make their own food?

Autotrophs

13. Health

What vitamin, found abundantly in yellow and orange vegetables and fruits, is necessary for the production of rhodopsin in humans? This allows us to see well in dim light.

Vitamin A

14. Literature

In Greek mythology, who was the sorceress, the daughter of Aeetes, who helped Jason obtain the Golden Fleece? She killed their children after he deserted her.

Medea

15. Social Studies

Name the Wyoming Republican who served as Secretary of Defense during the administration of President George Bush.

Richard Cheney

Round 4 - Toss Up/Bonus

1. Literature

In Shakespeare's Romeo and Juliet, what cousin of Juliet kills Romeo's friend Mercutio in a street brawl?

Tybalt

Bonus 1 - Science

Name the chemical elements which have the following atomic numbers:

1. 92 - Uranium
2. 94 - Plutonium
3. 79 - Gold
4. 14 - Silicon

2. Math (calculation)

Kim sells shoes in a department store for \$6.00 per hour plus an 8% commission on her sales. What would be Kim's gross pay for a week in which she works 25 hours and sells \$550.00 of shoes?

\$194.00

Bonus 2 - Social Studies

What major cities are served by the following airports:

1. Logan Airport - Boston
2. Midway Airport - Chicago
3. Gatwick Airport - London
4. Stapleton International Airport - Denver (now *Denver International*)

3. Science

The northern lights are known as the aurora borealis. What is the term for the southern lights, the same phenomenon in the southern hemisphere?

Aurora Australis

Bonus 3 - Language Arts

Give the French words for the following:

1. Tuesday - Mardi
2. Good morning - Bonjour
3. Please - S'il vous plait
4. Silver - Argent

4. Social Studies

What nation contains the island of Timor, lying just north of Australia in the Pacific Ocean?

Indonesia



Bonus 4 - Health

Name the parts of the human eye described by the following:

1. The inner layer of the eye with light receptors - Retina
2. The clear area in the front of the eye - Cornea
3. The middle layer of the eye with many blood vessels - Choroid
4. The tough outer layer of the eye - Sclera

5. Language Arts

What term, a Latin word meaning "elsewhere", is used in English for the defense given by an accused who claims he was "somewhere else" when a crime was committed?

Alibi

Bonus 5 - Math (calculation)

Find the following:

1. The logarithm of 32 to the base 2 - 5
2. The square root of 484 - 22
3. The cube root of 1728 - 12
4. Tangent of  $3\pi/4$  - Negative 1

6. Math (calculation)

What would be the volume of a cube which has a total surface area of 216 square inches?

216 Cubic Inches

Bonus 6 - Science

Identify the geologic eras of which the following geologic periods are a part:

1. Tertiary - Cenozoic
2. Cambrian - Paleozoic
3. Cretaceous - Mesozoic
4. Carboniferous - Paleozoic

7. Sports

Name the major league baseball legend from the turn-of-the-century era who still holds the all-time record for most wins by a pitcher in a career. He won an astounding 511 games.

Also record losses:

317 losses

Cy Young

Bonus 7 - Literature

Name the authors, whose last names all begin with the letter G, of the following works.

1. She Stoops to Conquer - Oliver Goldsmith
2. Lord of the Flies - William Golding
3. The Forsyte Saga - John Galsworthy

8. Science

What types of organisms are included in the class aves in biology?

Birds

Bonus 8 - Social Studies

Name the bodies of water into which the following rivers flow:

1. Congo River - Atlantic Ocean
2. Po River - Adriatic Sea
3. Jordan River - Dead Sea
4. Mekong River - South China Sea

9. Literature

In what major work of English literature by what author does the narrative begin at the Tabard Inn in Southwark, which is owned by the character Harry Bailly?

The Canterbury Tales by Geoffrey Chaucer

Bonus 9 - Math (calculation)

1. What is the number 68 in Roman numerals?

LXVIII

2. What is the logarithm of 4096 to the base 4?

6

3. 85 is 17% of what larger number?

500

4. Give the square of the sine of a 45 degree angle.

.5 or 1/2

10. Social Studies

Name the prime minister of India who was assassinated by some of her guards on October 31, 1984.

Indira Gandhi

Bonus 10 - Literature

Name the authors who created the following famous characters:

1. Amy March - Louisa May Alcott
2. Roger Chillingworth - Nathaniel Hawthorne
3. Stella Kowalski - Tennessee Williams
4. Jean Valjean - Victor Hugo

Replacement Questions - Round 8

Toss Up

Science

When observing what planet with a telescope can you see a feature known as Cassini's Division?

Saturn

Math (calculation)

Give the average of the following numbers: 123, 128, 133, 138, 145

133.4

Social Studies

What U.S. president was in office for the completion of the Erie Canal in 1825?

*Jackson took office 1829*

John Quincy Adams

Literature

In Greek mythology, who was the jealous wife of Zeus who punished many of his lovers?

Hera

Fine Arts

Name the popular musical, opening on Broadway in March of 1956, which starred Rex Harrison and Julie Andrews. This musical contained the songs "Lovely" and "I Could Have Danced All Night" and was based on a play by George Bernard Shaw.

My Fair Lady

Language

A chihuahua is a small dog. Spell chihuahua.

C-H-I-H-U-A-H-U-A

Misc-Sports

In men's softball, what is the official distance from home plate to the pitcher's mound?

45 Feet

Bonus

Science

Name the constellations described by the following:

1. It represents a goat - Capricornus
2. It contains the Pleiades star cluster - Taurus
3. It represents an eagle - Aquila
4. It contains the vernal equinox - Pisces

*no sense!*

### Math (calculation)

Simplify the following:

1. Square root of 324 - 18
2. Square root of 80 - 4 square roots of 5
3.  $2X^2 + 7X - 15 / 2X - 3 - X + 5$
4.  $12X^2 + 17X - 7 / 3X - 1 - 4X + 7$

### Social Studies

Name the U.S. presidents <sup>who</sup> used the following slogans for their programs

1. The New Deal - Franklin Roosevelt
2. The Square Deal - Theodore Roosevelt
3. The Great Society - Lyndon Johnson
4. The New Frontier - John F. Kennedy

### Literature

Name the authors of the following works:

1. Ulysses - James Joyce
2. Cat's Cradle - Kurt Vonnegut
3. Winnie the Pooh - A.A. Milne
4. Nana - Emile Zola

### Fine Arts

Name the composers of the following:

1. Madame Butterfly - Giacomo Puccini
2. The Flying Dutchman - Richard Wagner
3. Salome - Richard Strauss
4. Bluebeard's Castle - Bela Bartok

Duke

### Language

Correctly spell the following terms:

1. Nomination - N-O-M-I-N-A-T-I-O-N
2. Thermostatically - T-H-E-R-M-O-S-T-A-T-I-C-A-L-L-Y
3. Manipulator - M-A-N-I-P-U-L-A-T-O-R
4. Illuminance - I-L-L-U-M-I-N-A--N-C-E

### Misc-Sports

Give the nicknames of the following teams in the National Hockey League: