

Straight A Quiz Questions
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Seneca, SC 29678

Show-Me Academic Challenge
Spring 1994

Game Ten

Round 1 - Toss Up

1. Science

Which of the planets of the solar system is known to have the longest period of rotation about its axis?

it - slowest

Venus

2. Social Studies

In 1987, Jonathan Pollard was convicted of espionage against the United States. For what nation was Pollard spying?

Israel

3. Math

Name the two angles between 0 and 360 degrees whose tangents are positive 1.

45 degrees and 225 degrees

4. Literature

What American author wrote the short story The Open Boat, based upon his account of surviving the sinking of a ship?

Stephen Crane

5. Fine Arts

Name the seventeenth century artist, considered to be one of the greatest of all time, who created the 1655 painting The Polish Rider.

Rembrandt

6. Social Studies

Name the large European mountain range which runs the entire length of the nation of Italy.

Apennine Mountains

7. Math (calculation)

Factor the expression: $10X^2 - X - 3$

(5X - 3) times (2X + 1)

8. Science

Trees can not grow north of certain areas due to a layer of perpetually frozen subsoil which blocks root development. Name this layer of frozen soil.

Permafrost

9. Literature

Which of Shakespeare's plays contains the character Michael Cassio? He survives an attempt on his life to confirm the guilt of the villain of the tragedy.

Othello

10. Home Economics

What is the term used to describe a deep dish pie with a top made from biscuit dough and no bottom crust? Apple, cherry, and peach pies are often made in this manner.

Cobbler

11. Math

What is the measure in radians of an angle of 300 degrees?

5 pi/3

12. Language Arts

What is the term for the mark of punctuation which indicates the omission of one or more words within a quotation? It consists of a series of dots.

Ellipsis

13. Social Studies

What famous twentieth century psychologist, known for his behavioral research with pigeons, wrote the book Walden Two?

B.F. Skinner

14. Science

In the study of thermodynamics in physics, for what does a capital S stand in an equation?

Entropy

increase in disorder in a system

15. Literature

In what famous novel by what author do you meet the dog Buck, who is stolen from his master and sold as a pack dog in the Klondike?

The Call of the Wild by Jack London

Round 2 - Toss Up/Bonus

1. Science

The mineral hematite is an ore of what important element?

Iron

Bonus 1 - Math (calculation)

Find the square root of 576.

24 B

What is the number 41 in binary notation?

101001 B

What is the number 257 in Roman numerals?

CCLVII

What is the fourth root of 2401?

7 B

2. Social Studies

At an elevation of 13,140 feet, Boundary Peak is the highest point in what U.S. state?

Nevada

Bonus 2 - Science

Identify the chemical elements which have the following atomic numbers

1. 3 - Lithium
2. 9 - Fluorine
3. 14 - Silicon
4. 20 - Calcium

3. Literature

In Greek mythology, Persephone was taken as a wife by Hades. Which of the Olympian goddesses was the mother of Persephone?

Demeter

Bonus 3 - Fine Arts

Name the composers of the following operas:

1. The Valkyrie - Richard Wagner B
2. Porgy and Bess - George Gershwin B
3. Arabella - Richard Strauss
4. Orpheus - Claudio Monteverdi

Andy sez Orfeo

4. Math (calculation)

Find the average of the following numbers: 67, 69, 75, 76, 82

Ave = 73.8

Bonus 4 - Literature

Name the poets who created the following poems:

1. "The Rape of the Lock" - Alexander Pope
2. "Daffodils" - William Wordsworth
3. "When Lilacs Last in the Dooryard Bloom" - Walt Whitman
4. "Tam O'Shanter" - Robert Burns

5. Agriculture

What is the unit of area measure given to 10,000 square meters of land, almost 2 1/2 acres?

Hectare

Bonus 5 - Social Studies

It is 12:00 noon Eastern Standard Time. What is the standard time in the following cities:

1. San Francisco - 9:00 A.M. ^B
2. London - 5:00 P.M.
3. Honolulu - 7:00 A.M. ^B
4. Singapore - 12:00 A.M. (Midnight) ^B

6. Fine Arts

Name the American composer who wrote the scores for the musicals On the Town and West Side Story.

Leonard Bernstein

Bonus 6 - Sports

For what major league baseball teams did the following players play during their careers:

- 1: Brooks Robinson - Baltimore Orioles ^L
2. Roberto Clemente - Pittsburgh Pirates ^L
3. Jim Rice - Boston Red Sox ^L
4. Bob Feller - Cleveland Indians ^L

7. Social Studies

Identify the two Democratic presidential candidates who each lost a national election to Richard Nixon.

Hubert Humphrey and George McGovern

Bonus 7 - Math (calculation)

Convert the following degree measures to radians:

1. 150 degrees - $5\pi/6$
2. 18 degrees - $\pi/10$
3. 7.5 degrees - $\pi/24$
4. 495 degrees - $11\pi/4$

$$15^\circ = \pi/12$$

8. Science

In what constellation of the zodiac is the sun located when it reaches its lowest point in the sky in December of each year?

Sagittarius

Bonus 8 - Literature

In what famous novels do you meet the following characters:

1. Arthur Dimmesdale - The Scarlet Letter
2. Captain Ahab - Moby Dick
3. Catherine Linton - Wuthering Heights
4. Winston Smith - 1984

B
L
L

Earnshaw

9. Math CALC

A certain number X is reduced by 30% and Y is the result. Y is then reduced by a further 25% and 84 is the result. Find X.

160

Bonus 9 - Social Studies

Name the countries where you would go to visit the following cities:

1. Ostend - Belgium
2. Madras - India
3. Recife - Brazil
4. Bandar Abbas - Iran

10. Literature

What 1922 novel by James Joyce records the events of June 16, 1904, in the lives of Leopold Bloom, his wife Molly, and Stephen Dedalus?

Ulysses

Bonus 10 - Science

List any four of the five chemical elements which have names beginning with the letter M.

Mercury, Manganese, Magnesium, Molybdenum, Mendeleevium

L L L B

Round 3 - Toss Up

1. Social Studies

What mentally disturbed individual attempted to assassinate President Ronald Reagan in March of 1981, wounding him in the side?

John Hinckley

2. Math (calculation)

In Roman numerals, what is XLII divided by VII?

VI

3. Literature

Name the British author who wrote the 1883 story The Black Arrow, widely popular with young readers at the time.

Robert Louis Stevenson

4. Science

Kaolinite is a mineral which forms a fine white clay often used in ceramics. What metallic element is found in kaolinite?

Aluminum

5. Language Arts

Spell the French word for the month of January.

J-A-N-V-I-E-R

6. Math (calculation)

A suit normally sells for \$180. At this price the store makes a profit of \$50. How much profit will the store make if the suit is reduced by 20% in a sale?

\$14.00

7. Social Studies

Name the two Central American nations which share a border with El Salvador.

Honduras and Guatemala

8. Science

The human heart contains four chambers. Which of these chambers pumps blood to the lungs through the pulmonary artery?

Right Ventricle

9. Literature

In which of Ernest Hemingway's novels does the English nurse Catherine Barkley have a brief affair with the American lieutenant Frederic Henry, only to die bearing his child?

A Farewell to Arms

10. Fine Arts

Name the famous artist of the nineteenth century who developed eye problems late in life which prevented his painting outdoors. This resulted in his painting a series of views from the windows of Paris.

Camille Pissarro

11. Math (calculation)

Give the two real numbers solutions to the equation $2X^2 - 5X - 3 = 0$

$$X = 3, - 1/2$$

12. Science

but? Beaufort measures # 1-12

On the Beaufort Scale of wind velocity, what is the term for a wind between 6 and 49 kilometers per hour?

Breeze

13. Health

What is the term for the malignant cancer of the blood-forming tissues of the bone marrow, spleen, and lymph nodes? It is characterized by abnormal numbers and forms of white blood cells.

Leukemia

14. Literature

In what 1958 novel do you meet the character Holly Golightly, a somewhat mixed-up young woman living in a New York apartment?

Breakfast at Tiffany's

15. Social Studies

Although Prince Philip, husband of Queen Elizabeth II, is a descendant of Queen Victoria, in what European country was his father a prince in the first half of the twentieth century.

Greece

Round 4 - Toss Up/Bonus

1. Literature

What American poet of the early nineteenth century wrote the famous poem "Thanatopsis" when he was only a teenager?

age 16
William Cullen Bryant

Bonus 1 - Social Studies

In what countries do the following rivers flow into the sea:

1. Mekong River - Vietnam
2. Rhine River - The Netherlands (Holland)
3. Santiago River - Mexico
4. Dneiper River - Ukraine

2. Math (calculation)

Solve the following simultaneous equations for X and Y:

$$3X - Y = 0 \text{ and } X + 2Y = 14$$

$$X = 2, Y = 6$$

Bonus 2 - Science

Name the planets of the solar system described by the following clues:

1. It has a specific gravity less than 1 - Saturn ^B
2. It was the last planet visited by Voyager II - Neptune ^B
3. It was discovered by William Herschel - Uranus ^L
4. It rotates in the opposite direction from the others - Venus

3. Social Studies

After he graduated from Harvard in 1904, at what university did Franklin D. Roosevelt attend law school?

Columbia

Bonus 3 - Language Arts

Spell the following words:

1. Luminescence - L-U-M-I-N-E-S-C-E-N-C-E
2. Technologically - T-E-C-H-N-O-L-O-G-I-C-A-L-L-Y
3. Acquitted - A-C-Q-U-I-T-T-E-D
4. Persuasible - P-E-R-S-U-A-S-I-B-L-E

4. Science

Of the major types of subatomic particles, which is definitive for an element? The other particles may vary in number and the same element remains, but if the number of these is changed, a new element results.

Protons

Bonus 4 - Health

1. Name the large bone which forms the lower jaw.
2. What is the term for an inflammation of the liver?
3. What small bone forms the kneecap?
4. What is normal human body temperature in Celsius?

Mandible B

Hepatitis L

Patella B

37 degrees C. L

5. Language Arts

Other than the first word in the sentence, what words should be capitalized in the following: "To the west of the Rockies, few people have a Southern accent."?

Rockies and Southern

Bonus 5 - Math (calculation)

Answer the following in Roman numerals:

1. LII plus XVII - LXIX
2. CML minus CXLIV - DCCCVI 806 $950 - 144 =$
3. IX times XII - CVIII
4. LXIV divided by IV - XVI

6. Math

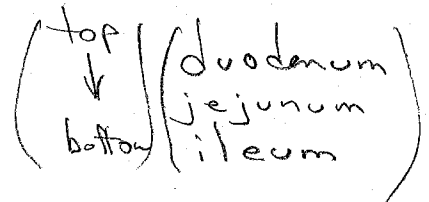
In trigonometry, what value does the square of the sine of an angle plus the square of the cosine of that angle always equal?

One

Bonus 6 - Science

Give the terms for the following:

1. A rapidly moving helium nuclei - Alpha Particle B
2. Specific bonds linking amino acids in proteins - Peptide Bonds
3. Structure in protists to expel excess water - Contractile Vacuole
4. The middle portion of the small intestine - Jejunum



7. Health

What is the term for the eye disorder in which there is elevated pressure on the eyeball due to an obstruction in the outflow of aqueous humor? This is a leading cause of blindness.

Glaucoma

Bonus 7 - Literature

Name the French authors who created the following works:

1. The Hunchback of Notre Dame - Victor Hugo
2. The Plague - Albert Camus
3. The Misanthrope - Moliere
4. The Four Gospels - Emile Zola

8. Science

An object has a kinetic energy of 32 joules. If this object has a mass of 4 kilograms, at what velocity is the object moving?

4 meters per second

Bonus 8 - Social Studies

Name the monetary units of the following Spanish-speaking countries:

1. Argentina - Peso
2. Venezuela - Bolivar
3. Ecuador - Sucre
4. Peru - Sol

Bolivar born in Caracas!

Incas worshipped the sun God, Sol hence, the

9. Literature

In what short novel by Herman Melville do you meet Captain Vere and the evil Claggart?

Billy Budd

Bonus 9 - Math (calculation)

1. 5 is 40% of what larger number?

12.5 L

2. Factor $6X^2 + X - 40$

(3X + 8) times (2X - 5)

3. Give the total surface area of a cube which has sides of 2 inches.

24 square inches B

4. Give the sum of the interior angles of an octagon. 1080 degrees B

10. Social Studies

The city of Paramaribo serves as capital of what South American nation?

Suriname

Bonus 10 - Literature

Name the American authors of the following works:

1. Catch-22 - Joseph Heller L
2. A Streetcar Named Desire - Tennessee Williams L
3. Riders of the Purple Sage - Zane Grey L
4. The Wapshot Chronicle - John Cheever

Replacement Questions - Round 10

Science

What is the term in biology for the complex proteins which act as catalysts for chemical reactions in living organisms?

Enzymes

Math (calculation)

25.2 is 45% of what larger number?

56

Social Studies

Name the Canadian province which is located on the northern border of the U.S. state of Washington.

British Columbia

Literature

Name the English author of the 1722 novel Moll Flanders.

Daniel Defoe

Fine Arts

What Austrian composer of the nineteenth century was known as the "Waltz King?" His most famous waltz today is the Blue Danube.

Johann Strauss

Language

What is a Spaniard referring to if he uses the word "escuela?"

School

Misc-Sports

Name the long-time coach of the Dallas Cowboys of the National Football League who was inducted into the team's "Ring of Honor" in November of 1993.

Tom Landry

Bonus

Science

Name the chemical elements which have the following symbols:

1. W - Tungsten
2. Sb - Antimony
3. Sn - Tin
4. Bk - Berkelium

Math (calculation)

Convert the following to Roman numerals:

1. ~~48~~ - ~~XLVIII~~ 2. 227 - CCXXVII
3. 1005 - MV 4. 691 - DCXCI

Social Studies

In what U.S. states are the following mountains located:

1. Mount Whitney - California
2. Mount St. Helens - Washington
3. Mount Washington - New Hampshire
4. Mount Mitchell - North Carolina

Literature

Name the works of American literature in which you meet the following characters:

1. Hester Prynne - The Scarlet Letter
2. Jake Barnes - The Sun Also Rises
3. Philip Nolan - The Man Without a Country
4. Laura Wingfield - The Glass Menagerie

Fine Arts

Name the composers of the following works:

1. The Moonlight Sonata - Ludwig Von Beethoven
2. Water Music - G.F. Handel
3. The Surprise Symphony - F.J. Haydn
4. Pomp and Circumstance - Edward Elgar

Language

Spell the following words:

1. Synchronicity - S-Y-N-C-H-R-O-N-I-C-I-T-Y
2. Forsythia - F-O-R-S-Y-T-H-I-A
3. Diagnostician - D-I-A-G-N-O-S-T-I-C-I-A-N
4. Oppugn - O-P-P-U-G-N

oppose

to oppose, contradict, or call into question

Misc-Health

Identify the vitamins described by the following:

1. It helps calcium be deposited in bones - Vitamin D
2. It is derived from beta carotene - Vitamin A
3. It is also known as thiamine - Vitamin B1
4. It is also known as tocopherol - Vitamin E