

Straight A Quiz Questions  
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Show-Me Academic Challenge  
Spring 1995

Game Eight

Round 1 - Toss Up

1. Science

What are the only two planets of the solar system which do not have at least one moon?

Mercury and Venus

2. Social Studies

Name the battle of 31 B.C. in which Octavian defeated the forces of Marc Antony and Cleopatra. This paved the way for the beginning of the Roman Empire.

Battle of Actium

3. Math (calculation)

On a Cartesian plane, what would be the midpoint of a line joining the points  $(-2, 5)$  and  $(6, 7)$ ?

$(2, 6)$

4. Literature

What American poet of the nineteenth century wrote the following lines, "The day returns, but nevermore, / Returns the traveller to the shore, / And the tide rises, the tide falls?"

Henry Wadsworth Longfellow

5. Fine Arts

What term in musical notation indicates a note which is to be played a semitone higher than a natural note?

Sharp

6. Social Studies

Two of the delegates to the original Constitutional Convention later became U.S. presidents. Name these two men.

George Washington and James Madison

7. Math (calculation)

The sum of two numbers is 41 and their difference is 9. Find these two numbers.

16 and 25

8. Science

In what phase of mitosis in a living cell do the chromosomes line up in the middle of the nucleus, just prior to their moving to opposite ends of the cell?

Metaphase

> 9. Literature

Name the fictional town in Minnesota which served as the setting of the popular Sinclair Lewis novel Main Street.

Gopher Prairie

10. Industrial Arts

A common unit of volume in the lumber industry is the board foot. What is the size of a board foot?

144 Cubic Inches

*1 ft x 1 ft x 12 in*

*(12 ft)  
12 in  
12 in*

11. Language Arts

What part of speech is the word extremely, as in the sentence "The meteor was extremely bright?"

Adverb

12. Social Studies

In 1968, the U.S. Navy ship Pueblo was seized and its crew was accused of spying. What foreign nation captured the Pueblo?

North Korea

13. Math

In the metric system of measurement, what is the term given to an area of 10,000 square meters?

Hectare

14. Science

The Hubble Space Telescope can see farther into space than any previous instrument. What class of astronomical objects contains the farthest known objects from our solar system? These objects are due for much study with the Hubble Telescope.

Quasars

15. Literature

In Greek mythology, what Titan leader was the father of Atlas, Prometheus, and Epimetheus? He led the rebellion against Zeus.

Iapetus

Bonus 7 - Science

Name the phyla of invertebrates which contain the following animals:

1. Shrimp - Arthropoda (Arthropods)
2. Squid - Molluska (Mollusks)
3. Jellyfish - Cnidaria (or Coelenterata)
4. Sea Cucumbers - Echinoderms *Echinodermata*

8. Science

What is the term for the electrical device which uses mutual induction between two coils to change the voltage of an alternating current?

Transformer

Bonus 8 - Social Studies

Name the capitals of the following countries:

- Malaysia*
1. Dominican Republic - Santo Domingo
  2. ~~Malaya~~ - Kuala Lumpur
  3. Uruguay - Montevideo
  4. Angola - Luanda

9. Literature

What popular American author's first novel was Pebble in the Sky, published in 1950? After that, he wrote over 200 books.

Isaac Asimov

Bonus 9 - Math (calculation)

Simplify the following:

1. Square root of 180 - 6 square roots of 5
2. Square root of 147 - 7 square roots of 3
3.  $2X^2 - 11X - 21 / X - 7$  -  $2X + 3$
4.  $6X^2 - 5X - 4 / 2X + 1$  -  $3X - 4$

10. Social Studies

Who was the king of Persia at the time of its defeat by Athens in the Battle of Marathon in 490 B.C.?

Darius I

Bonus 10 - Literature

Name the American poets who wrote the following poems:

1. "The Man Against the Sky" - Edwin Arlington Robinson
2. "The Building of the Ship" - Henry Wadsworth Longfellow
3. "Thanatopsis" - William Cullen Bryant
4. "The Gift Outright" - Robert Frost

Bonus 4 - Literature

Give the original nationalities of the following authors:

1. James Joyce - Irish
2. Boris Pasternak - Russian
3. Isak Dinesen - Danish
4. Edmond Rostand - French

Karen Blixen

5. Health

What is the term given to the specific type of break in a bone, commonly occurring in children, in which the bone splits lengthwise but does not break all the way through?

Greenstick Fracture

Bonus 5 - Social Studies

Name the English royal houses of which the following monarchs were members:

1. Elizabeth I - House of Tudor
2. Charles I - House of Stuart
3. Henry V - House of Lancaster
4. George III - House of Hanover

6. Language Arts

What is the term given to the form of picture-writing which was used by the ancient Egyptians?

Hieroglyphics

Bonus 6 - Sports

Give the nationalities of the following tennis stars:

1. Michael Stich - German
2. Emilio Sanchez - Spanish
3. Patrick Rafter - Australian
4. Andrei Medvedev - Ukrainian

7. Social Studies

What Central American nation contains an area which is known as the Mosquito Coast?

Nicaragua

Bonus 7 - Math (Calculation)

Convert the following degree measures to radians:

1. 60 degrees -  $\pi/3$
2. 135 degrees -  $3\pi/4$
3. 35 degrees -  $7\pi/36$
4. 144 degrees -  $4\pi/5$

8. Science

What SI unit is equal to 1 Newton per square meter? This is the standard unit of pressure.

Pascal

Bonus 8 - Literature

Name the famous dramatists who wrote the following plays:

1. A Woman of No Importance - Oscar Wilde
2. The Crucible - Arthur Miller
3. Major Barbara - George Bernard Shaw
4. The Wild Duck - Henrik Ibsen

9. Math (calculation)

A dress normally sells for \$90.00. At this price the store makes a profit of \$20.00. If the dress is reduced in price by 20 percent in a sale, what will be the profit of the store at the sale price?

\$2.00

Bonus 9 - Social Studies

Name the countries which have political control over the following islands:

1. Corsica - France
2. Bermuda - England (Britain or United Kingdom)
3. Tenerife Island - Spain
4. Madeira Island - Portugal

10. Literature

In which of Robert Frost's popular poems can you read the line, "I took the one less travelled by, / And that has made all the difference?"

"The Road Not Taken"

Bonus 10 - Science

Name the phyla of invertebrate animals which contain the following organisms:

1. Octopus - Molluska (Mollusks)
2. Sponge - Porifera
3. Crayfish - Arthropoda (Arthropods)
4. Leech - Annelida

Round 3 - Toss Up

1. Social Studies

Of what West African nation does the city of Bamako serve as capital?

Mali

2. Math

What type of three-dimensional figure can be technically defined in geometry as a set of points in space equidistant from a fixed point?

Sphere

3. Literature

In which of Shakespeare's plays does Prospero, the Duke of Milan, reign over an enchanted island?

The Tempest

4. Science

What is the medical term given to an inflammation of the wall of a vein, usually occurring in the leg? Thrombosis will often develop.

Phlebitis

5. Language Arts

What is the meaning of the Latin root "cad," as in the word cadence?

To Fall

6. Math (calculation)

What would be the y-intercept of a line joining the points (2,5) and (3,6)?

-3

7. Social Studies

What early king of England, the founder of the Plantagenet line, ordered the infamous murder of Thomas a'Beckett in the twelfth century?

Henry II

8. Science

Not counting helium, which of the noble gases in chemistry has the lowest atomic number?

Neon

9. Literature

What is the third and final book in J.R.R. Tolkien's popular trilogy  
The Lord of the Rings?

The Return of the King

10. Fine Arts

Name the U.S. composer who wrote the scores for the popular musicals  
On the Town and Candide.

Leonard Bernstein

11. Math (calculation)

Find the average of the following five numbers: 87, 89, 95, 98, 102.

94.2

12. Science

Name the type of extrusive lava rock, containing minerals rich in silicon, which has a spongy texture and is formed when lava is blown out of a volcano which contains much trapped gas.

Pumice

13. Home Economics

Jim is preparing a recipe which calls for one cup of milk. His measuring cup, however, is graduated according to the metric system. Within 10 milliliters, how much milk should Jim add to make one cup?

240 ml (230-250)

14. Literature

What character in a poem by Edwin Arlington Robinson, "One calm summer night, / Went home and put a bullet through his head?"

Richard Cory

15. Social Studies

What Danish philosopher and theologian of the nineteenth century is remembered as the founder of existentialism?

Soren Kierkegaard

Round 4 - Toss Up/Bonus

> 1. Literature

What American author of the early twentieth century created the fictional detective Nero Wolfe and his assistant Archie Goodwin?

Rex Stout

Bonus 1 - Social Studies

Name the countries which contain the following pairs of cities:

1. Sao Paulo and Recife - Brazil
- > 2. Port Elizabeth and East London - South Africa
3. Waterford and Cork - Ireland
- > 4. Bergen and Trondheim - Norway

2. Math (calculation)

A given rectangle has an area of 45 square feet. Find the perimeter of this rectangle if one of the sides has a length of 9 feet.

9.5 go easily into 45      28 feet

Bonus 2 - Science

Tell what is represented by the following astronomical constellations:

1. Libra - Scales
2. Corona Borealis - Northern Crown
3. Cetus - Whale
- > 4. Vulpecula - Fox

3. Science (calculation)

A certain compound is found to be 47 % silicon and 53 % oxygen by weight. What is the simplest formula for this compound?

SiO<sub>2</sub>

silicon dioxide

Bonus 3 - Language Arts

Spell the following words:

1. Regrettable - R-E-G-R-E-T-T-A-B-L-E
2. Indictment - I-N-D-I-C-T-M-E-N-T
- > 3. Beleaguered - B-E-L-E-A-G-U-E-R-E-D
- > 4. Accommodate - A-C-C-O-M-M-O-D-A-T-E

4. Social Studies

In the 103rd Congress which ended in 1994, what Georgia senator served as chairman of the Senate Armed Services Committee?

Sam Nunn

Bonus 4 - Health

Answer the following:

1. To what body organ does the term hepatic refer? Liver
2. In what part of the body do you have metatarsals? Feet
3. What is the scientific term for the breastbone? Sternum
4. What is the term for the protective membranes around the brain and spine? Meninges

5. Fine Arts

Name the American composer who wrote the popular 1935 opera Porgy and Bess.

George Gershwin

Bonus 5 - Math

Give the meanings of the following computer acronyms and abbreviations

1. DOS - Disk Operating System
2. BASIC - Beginners' All-Purpose Symbolic Instruction Code
3. ROM - Read-Only Memory
4. COBOL - Common ~~Business~~ Business Oriented Language

6. Math (calculation)

Divide the expression  $15X^2 - 28X - 32$  by  $5X + 4$  and give the result.

$3X - 8$

Bonus 6 - Science

Answer the following:

1. What two elements are used to form bronze? brass copper & zinc  
Copper and Tin
2. What chemical element has atomic number 3? Lithium
3. What instrument is used to measure density of a fluid? Hydrometer
4. What unit is equal to one joule per second? Watt  
energy per second

7. Agriculture

What U.S. state annually leads the nation in the amount of wheat which is grown?

North Dakota

Bonus 7 - Literature

Name the British poets who wrote the following poems:

1. "The Hind and the Panther" - John Dryden
2. "The Corsair" - George Gordon Byron
3. "The Owl and the Pussycat" - Edward Lear
4. "Queen Mab" - Percy Bysshe Shelley

8. Science

What is the term in biology given to a fertilized egg cell? This cell always has the diploid number of chromosomes for that species.

Zygote

Bonus 8 - Social Studies

In what wars were the following battles fought:

1. Battle of Jutland - World War I
2. Battle of Agincourt - Hundred Years' War
3. Battle of Kasserine Pass - World War II
4. Battle of Eutaw Springs - American Revolution

in Tunisia; 1<sup>st</sup> land battle  
U.S. was in;  
(Rommel!)

9. Literature

In what 1911 Edith Wharton novel do you find the character Zenobia, a hypochondriac who is married to the title character and who wastes much of his money on quack remedies?

Ethan Frome

Bonus 9 - Math (calculation)

Given a cylinder with a height of 8 inches and a radius of 3 inches, find the following:

1. Diameter - 6 inches
2. Volume -  $72\pi$  cubic inches
3. Total surface area - 66 square inches
4. Lateral surface area - ~~48~~ square inches

$48\pi$

10. Social Studies

When Jimmy Carter became U.S. president in 1977, who was inaugurated as his vice president?

Walter Mondale

Bonus 10 - Literature

Identify the following creatures from Greek mythology:

1. Beings half-man and half-horse - Centaurs
2. Female monsters who had snakes for hair - Gorgons
3. Monsters with heads of women and bodies of birds - Harpies
4. Hoofed demigods of woods and fields - Satyrs

Replacement Questions - Game 8

Toss Up

Science

What chemical element, number 47 on the periodic table, has the symbol Ag?

Silver

Math (calculation)

Name the three consecutive integers whose sum is 99.

32, 33, 34

Social Studies

Although the island of Sicily is now a part of Italy, what city serves as the capital of Sicily?

Palermo

Literature

What author created the character Christie Mahon in his 1907 <sup>play</sup> novel The Playboy of the Western World?

J.M. Synge

Fine Arts

Name the Spanish artist of the seventeenth century who is remembered for his sensitive portraits of the young princess Margaret Teresa and his classic portrait of Pope Innocent X.

Diego Velazquez

Language Arts

What is the term given to someone who is an expert in cutting gemstones?

Lapidary or Lapidarian

Health (Misc)

In what part of your body do you have bones known as metacarpals?

Hands

Bonus

Science

Name the phyla <sup>of</sup> invertebrates in which the following animals are classified:

1. Sea Urchin - Echinodermata (Echinoderms)
2. Oyster - Molluska (Mollusks)
3. Butterfly - Arthropoda (Arthropods)
4. Leech - Annelida

## Math (calculation)

Convert the following base ten numbers to base 8 notation:

- |       |   |    |       |   |     |
|-------|---|----|-------|---|-----|
| 1. 12 | - | 14 | 3. 32 | - | 40  |
| 2. 20 | - | 24 | 4. 80 | - | 120 |

## Social Studies

Name the home states of the following U.S. senators:

1. Daniel Inouye - Hawaii
2. Howell Heflin - Alabama
3. Trent Lott - Mississippi
4. Pete Domenici - New Mexico

## Literature

Complete the following titles from famous literary works:

1. The Old... by Charles Dickens - Curiosity Shop
2. The Strange Case of... by Robert Louis Stevenson - Dr. Jekyll and Mr Hyde
3. The Island of ... by H.G. Wells - Dr. Moreau
4. The Mill... by George Eliot - On the Floss

## Fine Arts

Name the artists who created the following works:

1. Jane Avril - Toulouse-Lautrec
2. The Rape of Europa - Titian
3. The Water Carrier of Seville - Diego Velazquez
4. The Land of Cockayne - Pieter Bruegal

## Language Arts

Correctly spell the following words:

1. Quiche - Q-U-I-C-H-E / ✓ -
2. Equilibrator - E-Q-U-I-L-I-B-R-A-T-O-R
3. Unequivocally - U-N-E-Q-U-I-V-O-C-A-L-L-Y
4. Acquiescent - A-C-Q-U-I-E-S-C-E-N-T

## Sports (Misc)

Give the nicknames of the sports teams at the following colleges and universities:

1. University of Washington - Huskies
2. University of Cincinnati - Bearcats
3. University of California - Golden Bears
4. Vanderbilt University - Commodores