

**1st and 3rd periods.** In these periods, your team will choose a category and be read ten questions. After each response, the moderator will indicate whether or not it was correct. If you are incorrect, the other team will have a chance to answer.

Bonus Category: Also a car model

Each correct response in this category is also a model of car.

1. In the lunar kind of this astronomical event, the moon is obscured by the Earth's shadow.

answer: [Mitsubishi] eclipse

2. This California city on the Los Angeles beachfront contains the Getty art museum. A Barbie doll is named for it.

answer: [Chevrolet] Malibu

3. What noble gas, atomic number ten, is used in advertising displays because of its glow in electric tubing?

answer: [Plymouth] neon

4. What clouds are described as "thin and wispy", and are located higher than stratus clouds?

answer [Chrysler] cirrus

5. This term describes snakes that use venom as a defense or to hunt. The pit variety has a heat sensitive organ near its eyes.

answer: [Dodge] viper

6. Also the name of a Stravinsky ballet, the phoenix is an example of these mythological creatures, usually with red, orange, and gold plumage.

answer: [Pontiac] firebird

7. What term is Spanish for "the gilded one" and described a mythical, fabulously wealthy Indian chief who would cover his body with gold dust at an annual festival?

answer: [Cadillac] Eldorado

8. In the Arthurian legend, after Mordred defeated King Arthur, Arthur was taken to what island for his wounds to be healed?

answer: [Toyota] Avalon

9. This astronomical phenomenon is solar wind interacting with the radiation belt producing brilliant colors in the polar skies.

answer: [Oldsmobile] Aurora Borealis or Australis

10. This town of southern Spain is the country's fourth-most populous. In a Rossini opera, a barber lives there.

answer: [Cadillac] Seville

Bonus Category: Fruits and Vegetables

Each correct response will contain the name of a fruit or vegetable.

1. What company did Steve Jobs and Steve Wozniak found in 1976?

answer: Apple Computer

2. In this book by Roald Dahl, the main character, James Henry Trotter, is orphaned when his parents are swallowed by a rhino.

answer: James and the Giant Peach

3. This royal family ruled the Netherlands from the 10th century and was started by a king named William.

answer: House of Orange

4. In medicine this is a callus, a hardened place on the skin, most often on the foot.

answer: corn

5. Car dealers are prohibited from selling these, cars that repeatedly break down.

answer: lemons

6. The wild type of this vegetable is known as Queen Anne's lace. The antioxidant it contains is a source of vitamin A and gives its taproot a distinct color.

answer: carrot [a source of beta carotene]

7. A slang term for an unstable country such as Honduras in the 1910's, this term was applied throughout Latin America to economies built on a namesake fruit. It is also a clothing store.

answer: Banana Republic

8. Millions died in Ireland in the 1840s when blight caused this crop to fail.

answer: potato

9. Though he won titles with the Yankees in 1996 and 1999, this outfielder and designated hitter's career came to a halt when he was suspended from baseball for drug possession.

answer: Darryl Strawberry

10. Common to boxers and rugby players, in this condition of the ear a blood clot causes the outer ear to swell and become deformed.

answer: cauliflower ear

**Bonus Category: Delaware**

1. What 17th century Queen of Sweden shares her name with a Delaware body of water?

answer: Christina

2. At 1231 square miles, what state is the only state to have a smaller area than Delaware?

answer: Rhode Island

3. In 1998, this measure of Delaware's population was 380 per square mile.

answer: population density

4. This is the number of delegates that Delaware sends to the House of Representatives.

answer: 1 [Mike Castle]

5. This founder of a college in Carlisle, Pennsylvania and namesake of a Delaware high school represented the state at the Constitutional convention.

answer: John Dickinson

6. Delaware Senator William Roth sponsored legislation creating the Roth IRA. What does the "R" stand for in this type of account?

answer: Individual Retirement Account

7. What 1989 film starring Robin Williams was filmed at St. Andrew's School?

answer: Dead Poets Society

8. In 2003 the University of Delaware won a NCAA Division I-AA [one double a] title in what sport?

answer: football

9. Part of the border between Delaware and Pennsylvania, known as the Twelve Mile Circle, is more appropriately named after what geometric term meaning part of a circle?

answer: arc (prompt on "semicircle")

10. What jazz musician, writer of the song, "Minnie the Moocher", lived in Hockessin until 1994?

answer: Cab(bell) Calloway

Bonus Category: Math Class

Pencil and paper may be useful in some of these questions. The moderator will give ten seconds for any question requiring computation.

1. What is five to the fourth power?

answer: 625

2. How many sides does a heptagon have?

answer: 7

3. What is the sum of two complementary angles?

answer: 90 degrees

4. What two numbers do computers use in binary arithmetic?

answer: 0 and 1

5. While a google has one hundred zeroes, how many zeroes are in a googleplex, which is one google googles?

answer: 10,000

6. The square root of 363 is closest to what counting number?

answer: 19

7. What number is the equivalent of the Roman Numeral "D"?

answer: 500

8. Solve for  $x$  in this equation: two over seven equals one over  $x$  plus one over  $7x$ .

answer: 4

9. If a clock reads 5:00, what obtuse angle is formed by its hands?

answer: 150 degrees

10. The numbers 1 through 16 are arranged in a magic square such that each row, column, and diagonal sums to the same number. No matter what arrangement is made, what would be the sum of a row in this four-by-four matrix?

answer: 34 [there are 8 pairs of 17, and each row, column, and diagonal would contain two such pairs]

**Bonus Category: Mystery Category**

The answers in this category have something in common. Solve the mystery and you'll know the answer to question ten.

1. What branch of the military has its academy in Annapolis, Maryland?

answer: Navy

2. Levi Strauss used this rugged cotton textile to make jeans.

answer: denim

3. The Bear, Weber, and Jordan rivers flow into it, but none flow out. Thus, evaporated water leaves behind high concentrations of sodium chloride. What is this lake in northwestern Utah?

answer: Great Salt Lake

4. According to the National Weather Service, this type of snowstorm is defined as having winds of 35 miles per hour and visibility of less than one-quarter mile for a period of at least three hours.

answer: blizzard

5. In the film *Gremlins*, it was the time after which the Mogwai could not be fed.

answer: midnight

6. In a beehive, eggs that develop into queens are given what special kind of jelly?

answer: royal jelly

7. This baseball team used to be based in Brooklyn, and is named for the abundance of Trolleys that used to be located there.

answer: Los Angeles Dodgers

8. Adding carbon and manganese to iron creates what alloy?

answer: steel

9. Along with magenta, yellow, and black, this is a common color of printing ink. It is formed by mixing equal amounts of blue and green.

answer: cyan or turquoise (prompt on answers equivalent to "light blue")

10. French Roquefort, Italian Gorgonzola, and English Stilton are all types of what cheese?

answer: blue [all the above answers are named shades of blue, most from Crayola]

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**2nd period:** This period contains twenty tossups worth 10 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

**TOSSUPS:**

1. This city was also called Ilium and was located on the northwestern corner of present-day Turkey. What is this ancient city that was destroyed when its citizens accepted the gift of a horse?

answer: Troy

2. It was nothing but mush when it rolled into the garden and the next summer it grew into a tree. What is this object found *On top of Spaghetti*?

answer: (my poor) meatball

3. It is located in Chester County, Pennsylvania and its population increased by 12,000 on December 19, 1777. What is this location where General Washington camped his troops during a winter?

answer: Valley Forge

4. It is the most malleable and ductile of all metals and has a high luster. Name this element, chemical symbol Au, which is bright yellow in color and a precious metal.

answer: gold

5. Their language is called Romany, and although they are linked with Eastern Europe they originated in India about 500 years ago. The Bizet opera character Carmen is an example. Name this group associated with a nomadic lifestyle and stereotypically with fortune telling.

answer: gypsies

6. After winning this tournament in 1949, Sam Snead was the first awarded a green jacket. Name this tournament held at the Augusta National Golf Club.

answer: the Masters

7. His autobiography has a reversible dust jacket so that it can be "disguised" as *The Luckiest Kids in the World Book 11: The Pony Party* by Loney M. Setnick. Name this author of *A Series of Unfortunate Events*, the pen name of Daniel Handler.

answer: Lemony Snicket (accept either)

8. Pencil and paper ready. Mariellen's hair length doubles every day. On day 1 it is one inch, on day 2, two inches, and day 3, four inches. On what day would Mariellen's hair be 512 inches in length? (*Give 10 seconds.*)

answer: day 9

9. Sequels to this book include *Good Wives*, *Jo's Boys and How They Turned Out*, and *Little Men*. Name this work by Louisa May Alcott.

answer: Little Women

10. This religion is based partially on a book found on gold plates by Joseph Smith. Name this Christian denomination prevalent in Utah.

answer: Mormon or Church of Jesus-Christ of Latter-day Saints

11. To navigate, bats used when kind of sound waves higher than the human ear can hear?

answer: ultrasound

12. His father was among the Sarmatian cavalry that held off the Romans, so he and his father were drafted in the Roman army and sent to Britain for 15 years. This is the premise of what 2004 film about a legendary King of Britain?

answer: King Arthur (accept Artorious Castus)

13. The ratio seven over three is an example of what kind of fraction whose numerator is larger than its denominator?

answer: improper fraction

14. The first one in the U.S. was constructed at Orwigsburg Landing in Pennsylvania. The one through Yerba Buena Island in California has two decks for traffic. What are these throughways, including the ones in New York City named Lincoln and Holland?

answer: tunnels

15. You can find Olympus Mons, the largest volcano in the solar system, on what planet?

answer: Mars

16. What Spanish term means "sixth hour" and describes a little sleep you might get in the afternoon?

answer: siesta

17. After going 18 and 4 in the 2004 season, what Houston Astro won his first Cy Young in the National League, having left the Yankees the previous year?

answer: Roger Clemens

18. In architecture, what describes the part of a tower or steeple where a bell is hung, something that you might have bats in?

answer: belfry

19. Its name might be a Phoenician word for "sunset" since it was in the lands to their west. It could also be named after a princess that Zeus appeared to in the form of a bull. What is this continent?

answer: Europe

20. The first Qin [CHIN] emperor built one in ancient times, and successive dynasties added sections. What is this structure stretching across almost 4,000 miles of China?

answer: Great Wall of China

**4th period:** This period contains twenty tossups worth 15 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

**TOSSUPS:**

1. In physics, what is defined as space devoid of matter of any kind, that nature is said to abhor?

answer: vacuum

2. The term was used in the State of the Union speech in 2002 to describe regimes that sponsor terror. What collective name did Bush give Iraq, Iran, and North Korea?

answer: Axis of Evil

3. She gave her father Zeus a headache, until someone took an axe and hacked his head open. She then sprang out, grown and completely armored. Name this Greek goddess of wisdom, who granted the Greek rival of Sparta an olive tree.

answer: Athena

4. In which of the five classical ballet positions are both hands raised, and the feet turned inward with legs crossed?

answer: fifth position

5. What French word meaning "untying" describes the final events in a drama or fiction that follow the climax?

answer: denouement [DAY-new-mont]

6. She served on a Maryland plantation before she escaped in 1849. In subsequent years she guided hundreds of slaves to Canada. Who was this "conductor" of the Underground Railroad?

answer: Harriet Tubman

7. Tolstoy wrote a Russian adaptation, entitled The Adventures of Burratino, with Burratino meaning "puppet". Name this work by Carlo Collodi about a puppet that appears in the *Shrek* series in a minor role.

answer: The Adventures of Pinocchio

8. Some were written in Aramaic, and they were found near a namesake body of water in Jordan. What are these papyrus scrolls detailing ancient Jewish practices?

answer: Dead Sea Scrolls

9. Pencil and paper ready. Taking the SAT, Austin notices that he has thirty minutes to answer fifty questions. If Austin spent equal time on every question, how long in seconds would this be? (*Give 10 seconds.*)

answer: 36 seconds

10. Who wrote the lyrics to *The Mikado* and *H.M.S. Pinafore* while working with the composer Arthur Sullivan?

answer: William Schwenck Gilbert

11. Accomplished by throwing twelve strikes in a row, what is the maximum score in bowling?

answer: 300

12. What field of mathematics was discovered by Leibnitz and Newton, and involves rates of change and areas using derivatives and integrals?

answer: calculus

13. Located in the Cascade Range, Mount Hood is the highest point in what state whose cities include Eugene and Salem?

answer: Oregon

14. In what medical procedure is a catheter attached to a balloon used to open an artery that has narrowed?

answer: angioplasty

15. The Chicago Daily Tribune ran a headline saying Dewey defeated him, but who actually won the election of 1948, serving after FDR and before Eisenhower?

answer: Harry S. Truman

16. While sailing from England to Virginia, George Somers shipwrecked here in 1612. What is this island group east of North Carolina?

answer: Bermuda Islands

17. He nearly killed Boba Fett in a siege of Xagobah. Though a member of the Kaleesh species, his body is a fusion of a robotic structure and organic parts. Name this General killed by Obi-Wan Kenobi in *Star Wars III*.

answer: General Grievous

18. The Transylvanian leader Vlad Tepes [TEH-pees] was known as Vlad the Impaler after leaving an opponent's army to die on stakes. What Bram Stoker literary character is said to be inspired by Tepes?

answer: Count Dracula

19. One reference says it represents a pause shorter than a period but longer than a comma, and might be used to separate parts of a list already containing commas. Name this punctuation mark, found on a keyboard where your right pinkie is



placed.

answer: semicolon

20. Its title comes from *The Tempest* in which Miranda exclaims "O [blank] that has such people in it". What is this work by Aldous Huxley about a society dominated by genetic engineering?

answer: Brave New World