

1. It began in 1929 when Justin Ford Kimball, with Baylor University in Dallas, introduced a plan to guarantee teachers 21 days of hospital care for \$6 a year. Adopted by the American Hospital Association (AHA) in 1939, these groups were affiliated until 1972. In 1933, E.A. van Steenwyk, began to identify his hospital care program with -- for 10 points -- what famous symbol, often paired with the a similarly colored Shield?

Answer: Blue Cross

EDITOR'S NOTE: Yes, I work for them, but no, I *didn't* write this one.

2 .Despite successful campaigns in Scotland, Wales, and Ireland, and the defeat of the usurper Philip of Brittany, he became known as "Soft-sword" because of his lack of military success on the continent, where Philip Augustus had taken away most of his land in Normandy and Anjou. He also lost a contest over the Archbishopric of Canterbury with Innocent III, who placed Stephen Langton on the see. However, this monarch got into the most trouble with his innovations in tax collecting, which came to a head after the defeat of his ally Otto IV of Germany at Bouvines in 1214. FTP name this English king forced by his Barons to seal the Magna Carta.

Answer: **John I.**

3. Pencil and paper may be useful. For the function $40x^3$, it is the slope of the tangent line at x equals 1, and it is also equal to the dot product of the vectors (10, 20, 30) and (2, 2, 2). It also equals the sum of the integers from 1 to 15 inclusive, the degree measure of an internal angle in a regular hexagon, and the number of distinct permutations of 5 different elements. Equal to the angle in degrees formed by the minute and hour hands of a clock at 4 o'clock, FTP what is this number, equal to five factorial?

Ans: 120

4. Beginning with a debate on Frederick Nietzsche's doctrine of eternal recurrence, it ends by denying it with the statement: "Human time does not turn in a circle; it runs ahead in a straight line. That is why man cannot be happy: happiness is the longing for repetition." Set against the backdrop of the Soviet invasion of Czechoslovakia in 1968, it concerns the idealistic professor, Franz, who is eventually killed in Thailand: Sabina, an artist who has affairs with Franz, as well as Tomas, a womanizing Prague surgeon, married to Teresa, who tries to convince her husband that sex and love are inseparable. FTP, name this most famous novel of Milan Kundera.

Answer: **The Unbearable Lightness of Being.**

5. Estimated to cost approximately \$30 billion annually, types include environmentally induced cracking, hydrogen damage, dealloying, intergranular, pitting, crevice, and galvanic. Examples of prevention methods are passivation, sacrificial anode, cathodic, and protective coating. FTP, name this general term for the processes by which metal is lost from the bulk; the most common example of which is rust.

Answer: **corrosion.**

6. A banquet of the Gods to which the Goddess Discord was not invited resulted in this. Perhaps the first Miss Universe Contest, its winner was thought to have been born out of the foam of the sea. FTP name this event won by Aphrodite.

Answer: **Judgment of Paris**

7. After the Revolution he served as a political commissar in the Russian Civil War. In the 30's he oversaw construction of the Moscow subway system and helped Stalin with his purges of Ukrainian intellectuals in the Great Terror. During WWII he was near the front lines as Head of the Communist Party in the Ukraine. After Stalin's death in 1953 he defeated Georgi Malenkov and Lavrenti Beria to become head of the USSR which he ruled until he was overthrown by Leonid Brezhnev in 1964. FTP name this Soviet leader during the U-2 affair, the building of the Berlin Wall, and the Cuban Missile Crisis.

Answer: **Nikita Khrushchev.**

8. Born in England and married at sixteen, in 1630 this author emigrated to the Massachusetts Bay Colony aboard the Arbella. Twenty years later, in London, this poet's Brother-in-Law published a book of poems written by her. FTP what "Gentlewoman in those parts" entitled "The Tenth Muse Lately Sprung Up in America".

Answer: Anne **Bradstreet**

9. They appear to have evolved from movable genetic elements. Their basic genetic map consists of terminal repeats flanking three genes. Those genes—gag, pol, and env—encode internal structural proteins, enzymatic proteins, and envelope proteins respectively. One of those enzymes that pol encodes for is reverse transcriptase. FTP, identify this family of viruses containing Rous sarcoma virus and HIV.

Answer: **Retroviruses.**

10. At 17 Cherry Tree Lane, banker George Banks and his suffragette wife Winnifred are seeking a replacement for Katie Nina, the previous nanny. While many apply, it's clearly a tough gig. But they find someone practically perfect in every way. For 10 points -- name this title character of a series of books by P.L. Travers, none of which contains the word "supercalifragilisticexpialidocious."

Answer: Mary **Poppins**

11. Believing that the interior comprised the essence of a thing, he asserted "it is impossible for anyone to express anything essentially real by imitating its exterior surface." A part of the 1913 Armory Show in New York, his works stress curves and are often ovoid in shape. He created a monumental war memorial for slain soldiers at Targu Jui which includes the *Table of Silence* and *Lover's Kiss*, but is best known for his lifelong quest to find "the essence of flight." FTP name this Romanian sculptor of *Bird in Space*.

Answer: Constantin **Brancusi.**

12. His mother, Cyprus, was a daughter of an Arabian prince and his father, Antipater, was the chief minister of King Hyrcanus. He came to power, with the help of his patron Marc Antony, after Hyrcanus's nephew Antigonus sided with the Parthians against the Romans. During his reign he built the port of Caesaria and the great fortress at Masada, but was disliked by the people because he taxed them excessively and was wantonly cruel, executing two of his sons and burning alive the scholars Judas and Matthias. FTP name this King of Judea who died in 4 B.C. but not before trying to kill the Baby Jesus.

Answer: **Herod the Great.**

13. It was designed by Joshua Humphries and built in Edmund Hartt's Boston shipyard, the harbor where it is still stationed. From 1844-46 it circumnavigated the globe and in its early years it served in the West Indies during the Quasi-War with France and in the Mediterranean as Preble's flagship during the Barbary Wars. In the War of 1812 it defeated the Cyane and Levant with Charles Stewart as captain, the Java with Bainbridge, and the Guerriere with Isaac Hull. FTP name this heavy frigate, the oldest commissioned warship in the U.S. Navy, the subject of Oliver Wendall Holmes' poem "Old Ironsides."

Answer: U.S.S. **Constitution.**

14. In the author's later years he thought it worked best as a "poem of the pure imagination" and would have been better without its moral tone. It was revised in 1817 and published in *The Sibylline Leaves* with a Latin epigraph from Thomas Burnet's *Archaeologiae Philosophicae* and a gloss in the margins. First published, with more archaic language, in 1798's *Lyrical Ballads*, it contains one of the most misquoted lines in literature: "Water, Water, everywhere,/ Nor any drop to drink." FTP name this Samuel Taylor Coleridge poem in which a sailor is divinely punished for shooting an albatross.

Answer: **The Rime of the Ancient Mariner.**

15. This conductive assembly of charged particles, neutrals and fields exhibit collective effects and carry electrical currents and generate magnetic fields. The most common form of matter, comprising more than 99% of the visible universe, it is found in stars, the sun, the solar wind, lightning, and fire. FTP, identify this fourth state of matter which shares its name with the fluid in which blood cells or lymph cells are suspended.

Answer: **plasma**

16. It ended with ^{its} defeat at the Battle of Tondibi in 1591 by a Moroccan army. With its capital at Gao on the Niger River, it reached its peak under Askia Muhammad, who urged his subjects to adopt Islam. It had expanded greatly under

Askia's father, Sunni Ali, who conquered Jenne and Timbuktu in the late 15th century. FTP name this West African empire.

Answer: **Songhai Empire**

17. The law partner of David Kirby, this trial lawyer was the son of a blue collar cotton miller. People magazine's sexiest American politician, he was billed by the New Yorker as the next Bill Clinton. A possible challenger for the White House in 2004, he currently serves in the Senate. FTP, name this North Carolina Democrat billed as the People's Senator.

Answer: **Sen. John Edwards**

18. He's not Yogi Berra, but he does have some comparable quotes: "The key word is 'If he stays healthy'." "The key to the Atlanta defense is that they play well... on defense." "From the waist down, Earl Campbell has the biggest legs I have ever seen on a running back." The classic for the ages, however, might be "I think the quarterback is going to be involved with the next play." And for this they got rid of Dennis Miller? All of these quotes were actually spoken by, FTP, what namesake of EA Sports football games who has joined Al Michaels as color commentator on Monday Night Football?

Answer: John **Madden**. (prompt on Cam Cleeland during the first sentence)

19. Peter Debye independently discovered this effect, which gave powerful evidence for Planck's quantum hypothesis. It occurs as a result of the transfer of energy and momentum from a photon to an electron, resulting in the recoil of the electron and production of new photons of lesser energy; the photons' scattering angles depend on the amount of energy lost to the recoiling electron. FTP--name the effect used by its American namesake to explain the increase in wavelength of X rays scattered by electrons.

Answer: **Compton** effect

20. In later years she worked with magazines representing the Urban League and the NAACP as well as founding the first adoption house for international and interracial children. The theme of interracial love loomed large in her works especially *The Angry Wife* and *The Hidden Flower*. She also explored the problems of mentally handicapped children in *The Child Who Never Grew Up*, based on her own daughter. However, her best known works are about China, the country she was raised in. FTP name this author of *East Wind*, *West Wind*, and *The Good Earth*, who, in 1938, became the first female American to win the Nobel Prize for Literature.

Answer: Pearl S. **Buck**.

21. First recorded in the writings of Seren Sammonicus, a gnostic physician, it is a Kabalistic word or charm which is either derived from the Jewish phrase meaning "hurl your thunderbolt even unto death" or the Jewish words for Father, Son, and Holy Spirit. In the Middle Ages it was written on a parchment and hung from the neck with a linen string, supposedly because it counteracted physical ailments. FTP name this nonsense word, also the title of a Steve Miller Band song, now generally said before a magician makes a rabbit disappear.

Answer: **abracadabra**.

22. Giovanni Giustiniani, (*joo-STIN-ee-ahn-nee*), the general in command of the foreign troops among this city's defenders, died in disgrace of his wounds from the final assault on it. Giustiniani fled the field despite the pleas of Emperor Constantine XI. The victor was the once-deposed Muhammad II, who had vowed to make his mark two years earlier after he'd regained the Ottoman sultanate. FTP name the city which fell after a fierce siege in 1453, marking the end of the last remnant of the East Roman or Byzantine Empire.

Answer: **Constantinople** [do not accept Byzantium or Istanbul; neither was in use anywhere near the time]

23. Wearing leather shoes, engaging in sexual relations, anointing one's body, and washing are all prohibited. White is usually worn and a 25 hour fast is required. Instituted with Leviticus 23:26, it takes place on the 10th day of Tishri, usually in September or October. A special prayer book called the machzor is used with it and Rosh Hahanah, and it is the only biblical holiday in which the kiddush is not performed. It begins with the Kolnidre, or "all vows prayer" and ends with the blowing of the tekiah gedolah. FTP name this Jewish holiday, "The Day of Atonement."

Answer: **Yom Kippur**.

1. Identify these organic compounds for the stated number of points.

a. (5) An organic compound with a carbon bound to a hydroxyl group. Examples are methanol, and ethanol.

Answer: **alcohol**

b. (10) An organic compound formed from an acid and an alcohol.

Answer: **ester**

c. (15) An organic compound that contains a carbonyl group.

Answer: **ketone**

2. Name the composer from works on a 10-5 basis.

1. (10) *The Kiss, Brandenburgers in Bohemia, Ma Vlast.*

(5) *The Bartered Bride.*

Answer: **Bedrich Smetana.**

2. (10) *Concerto for Orchestra, The Miraculous Mandarin*

(5) *Duke Bluebeard's Castle.*

Answer: **Bela Bartok.**

3. (10) *Mephisto Waltzes, Dante Symphony.*

(5) *Hungarian Rhapsodies, Faust Symphony.*

Answer: **Franz Liszt.**

3. FTPE name the following works of literature about the Civil War.

1. Peyton Farquhar, a wealthy planter, is hung at the title location. but not before he imagines that he has escaped and returned home in the split-second it takes the noose to snap his neck in this short-story by Ambrose Bierce.

Answer: **An Occurrence at Owl Creek Bridge.**

2. Michael Shaara won a Pulitzer Prize for this novel about the Battle of Gettysburg and a few of the primary players (Chamberlain, Lee, Longstreet) involved. It was the basis for the movie *Gettysburg*.

Answer: **The Killer Angels.**

3. In this Stephen Crane work, first Henry Fleming turns tail and runs, then he doesn't and feels a lot better about himself.

Answer: **The Red Badge of Courage.**

4. Computer viruses are programs which typically can self-replicate and can damage a computer's hard disk.

Answer these questions related to forms of computer viruses, 10 pts. each.

a. This is a program or algorithm that replicates itself over a computer network. The Klez variety uses the e-mail address book to spread itself via Internet mail and prevents users from installing or updating their anti-virus program.

Answer: **Worm**

b. As their name implies, these are imposter which claim to be something desirable or innocuous, but are malicious. They do not replicate themselves, but provide a "back door" for someone to penetrate a computer's defenses, usually to steal data or destroy information.

Answer: **Trojan horse**

c. This new classification of "malicious" code doesn't fit into the more general worm and Trojan horse classification. It is software or code that sends information via cookies, web bots and adward, from your computer to an external source, which then uses the data to send you annoying pop ads.

Answer: **Spyware**

5. Name the following US Vice-Presidents FTSNOP:

This Ohioan, Coolidge's vice president, was awarded the Nobel Prize for Peace with Sir Austen Chamberlain in 1925 for his namesake plan rescheduling payments for German reparations.

Answer: **Charles Dawes**

He was the son of Harding's Secretary of Agriculture and he served in the same position for the 8 years preceding his vice-presidency. He broke with Truman and revived the Progressive Party to run for president in 1948.

Answer: **Henry Agard Wallace**

In the last 40 years, two former Minnesota Senators served as Vice President but lost races as the Democratic nominee for President, in 1968 and 1984, respectively. Name them F5PE.

Answer: **Hubert Humphrey and Walter Mondale**

6. For 5 points each and a bonus 5 for all correct name all the 2nd in commands from each Star Trek series.

1. The Original Series

Answer: **Spock**

2. Next Generation

Answer: **William Riker**

3. Deep Space Nine

Answer: **Major Kira Nerys**

4. Voyager

Answer: **Chakotay**

5. Enterprise

Answer: **Charles 'Trip' Tucker III (Accept T'Pol)**

7. Give the Oscar Wilde work from clues FTPE.

1. This work written in France after his imprisonment is about a man in prison who is to be executed for killing his lover, and is told by a sympathetic fellow inmate. It repeats the haunting line, "And all men kill the thing they love."

Answer: **The Ballad of Reading Gaol.**

2. This play was originally written in French and was illustrated by Aubrey Beardsley. It concerns the title character, who by the influence of her mother Herodias, asks her father Herod for the head of John the Baptist.

Answer: **Salome.**

3. This comedy, produced in 1892, ends with the marriage of Mrs. Erlynne to Lord Augustus Lawton. It also contains the relationship of the title character with Lord Darlington as well as the recognition of the titular object.

Answer: **Lady Windermere's Fan.**

8. Captains of Industry or Robber Barons? Either way, name them from clues FTPE.

1. Born of poor Scottish origins, he launched Pittsburgh as the center of the steel industry. In his *Gospel of Wealth* he asserted that the rich have a duty to give back to the community which he did - most notably by creating public libraries.

Answer: **Andrew Carnegie.**

2. This man bought Carnegie Steel to form the U.S. Steel Corporation, the first billion dollar corporation in the U.S. He began his career in banking and helped President Cleveland stabilize the economy after the 1893 panic.

Answer: **J.P. Morgan.**

3. This railroad owner bought the Denver Rio Grande and the Western Pacific RRs to compete with E.H. Harriman in the west and connected Baltimore to Toledo in the east to challenge the Pennsylvania RR. However, he lost nearly everything in the Panic of 1907.

Answer: **George Jay Gould.**

9. Identify these similar-sounding parts of the human body, FTPE.

[10] This part of the diencephalon helps surround the third ventricle of the brain and relays sensory signals to the cerebral cortex.

Answer: **thalamus**

[10] This organ found near the lower part of the neck consists mainly of lymph tissue and decreases in size and activity after puberty.

Answer: **thymus**

[10] The abnormal enlargement of this butterfly-shaped gland is known as a goiter.

Answer: **thyroid gland**

10. Identify the following Art movements from clues FTPE:

A. Vlaminck, Dufy, Derain, Roualt, Braque, and Matisse are grouped into what school of art named for the French for "wild beast"?

Answer: **Les Fauves**

B. This absurdist movement took its name from the French for Hobby-Horse

Answer: **Dada**

C. This numerical grouping, sometimes called the Ash-can school, included John Sloan, Robert Henri, A.B. Davies, George Luks, and Maurice Prendergast, among others

Answer: **The Eight (Later the Ten)**

11. Identify these commanders at the Waterloo Campaign FTPE.

1. This commander of the British, Belgian, and Dutch, army set up a defensive position around Mt. St. Jean and successfully repulsed Napoleon's attacks.

Answer: Arthur **Wellesley** of The Duke of **Wellington**.

2. This Prussian commander, nicknamed "Marshal Forward" was defeated by Napoleon at Ligny prior to Waterloo.

Instead of retreating to the east, he moved to the north, supporting Wellington and launching an attack against Napoleon's exposed right flank.

Answer: Gebhard von **Blucher**.

3. This French Marshal and Napoleon's second in command failed in beating the British from Quatre Bras and attacking the Prussian flank at Ligny. At Waterloo he largely had tactical command against the British but his unsupported cavalry attacks failed.

Answer: Michel **Ney**.

12. 30-20-10 Name the thing

(30) Notable examples of it include the Rebecca, Tithe, Bread, Bristol,, Evil May Day, Glasgow, Luddite, and Hyde Park.

(20) It gives its name to an act passed in 1715 providing that any assembly of 12 or more persons which disturbs the peace, and which fails to disperse when called upon by a magistrate or sheriff shall be deemed guilty of a felony.

(10) Famous American ones include Watts, Stone Wall, and the Rodney King ones in Los Angeles.

Answer: **Riot**

13. Solve these physics problems, 15 points each. You have 15 seconds to complete each problem.

a. You have a 2 kilogram mass to which you apply 9 Newtons of force across a frictionless table for 4 seconds starting at rest. What kind of kinetic energy does it have now?

Answer: **324 joules**

b. A force of 50 Newtons causes an object to accelerate at 10 meters per second squared. What is the mass of the object?

Answer: **5 kilograms**

14. 5-10-20-30, answer the following questions that may or may not be related.

a) After starting 0-4, this NFL team recently benched veteran quarterback Vinny Testaverde in favor of Chad Pennington.

Answer: New York **Jets** [prompt on New York]

b) Give the team name of the NHL franchise in San José.

Answer: San José **Sharks**

c) Director Baz Luhrmann updated this classic play in 1996 with Leonardo DiCaprio and Claire Danes in the title roles.

Answer: **Romeo & Juliet**

d) This musical loosely based on Romeo & Juliet features two rival gangs, the Jets and the Sharks.

Answer: **West Side Story**

15. In this bonus you'll be read a list of movies and, FTP, you'll then name the actress common to all three.

Shallow Hal; Seven; The Talented Mr. Ripley

Answer: Gwyneth **Paltrow**

Tootsie; The Accidental Tourist; Earth Girls Are Easy

Answer: **Geena Davis**

Man on the Moon; The People vs. Larry Flynt; Basquiat

Answer: **Courtney Love**

16. Identify the deserts from descriptions FTPE.

1. This large desert of southern Africa should really be considered a "dry savannah" because its sand dunes have stabilized and it has moderate amounts of vegetation. Occupying most of Botswana, it stretches from the Orange River to southern Angola and is inhabited by the [click your tongue to make the "!" sound]!Kung San peoples.

Answer: **Kalahari**.

2. This desert of southeastern California and small portions of Nevada, Arizona, and Utah lies between the Sonoran desert and the Great Basin. Its vegetation includes Blackbrush, Desert Spanish Bayonets, and Joshua Trees.

Answer: **Mojave**.

3. This desert of Western Australia is enclosed by the Pilbara and Kimberly ranges and the Gibson Desert to its southeast. Its western part has almost no sand but boasts beautiful and complex geological formations.

Answer: **Great Sandy**.

17. Identify the Henry James novels from descriptions FTPE.

1. James considered it his best work. At the behest of Mrs. Newsome, Louis Lambert goes to Europe to bring back her son Chadwick. Instead he begins a relationship with the expatriate Maria Gostrey.

Answer: **The Ambassadors.**

2. Winterbourne and the title heroine spend time together in Switzerland and agree to meet that winter in Rome. When Winterbourne arrives he finds the heroine in love with Giovanelli. She eventually dies after cavorting with Giovanelli in the Coliseum on a cold night.

Answer: **Daisy Miller.**

3. Isabel Archer is taken to Europe by her aunt Mrs. Touchett where she meets Lord Warburton. Her beau back home, Caspar Goodwood also arrives leaving Isabel with tough choices. The novel ends with the death of Mr. Touchett who leaves Isabel half his estate so she can do what she wishes.

Answer: **Portrait of a Lady.**

18. Name the Asian leaders from clues FTPE.

1. Becoming president of the Philippines in 1966, he made himself dictator in 1972 in the wake of the Islamic Moros rebellion and widespread guerilla movements. In 1983 he assassinated opposition leader Benigno Aquino and was ousted from power in 1986 when the military supported Aquino's wife Corazon.

Answer: **Ferdinand Marcos.**

2. Along with Mohammad Hatta he established an independent Indonesian nation and became its first president. His rule gradually became more dictatorial and more interested in Communism until he was ousted by Gen. Suharto in 1965.

Answer: **Sukarno.**

3. Although he was twice purged from the Chinese Communist party, once in the wake of the Cultural Revolution and another after Zhou Enlai's death, he became the de facto leader of China in the 1980's suppressing the Tiananmen Square protests and appointing Jiang Zemin his successor.

Answer: **Deng Xiaoping.**

19. FTPE, answer these questions on astronomical measurement:

[10] This is the distance to a star such that its apparent position shifts due to parallax by one arc second over a year.

Answer: **One parsec**

[10] This is the observed angular movement of a star over a year that is due to the star's actual motion.

Answer: **proper motion**

[10] This nearby red dwarf, 1.8 parsecs away, is the star with the largest known proper motion. It's named for the Tennessean who discovered it.

Answer: **Barnard's Star**

20. Give the Dickens work from characters FTPE

1. Dick Swiveller, Kit Nubbles, Mr. Martin, Thomas Codlin, and Little Nell Trent.

Answer: **Old Curiosity Shop.**

2. James Harthouse, Stephen Blackpool, Josiah Bannderby, Thomas Gradgrind.

Answer: **Hard Times.**

3. Mr. Bumble, Jack Dawkins, Mr. Brownlow, Monks, and Fagin.

Answer: **Oliver Twist.**

21. Seems like this question turns up somewhere every year. Well, why not here? Name the Five Good Emperors of Rome, for five points each plus five points if you get them in correct order.

Answer: **Nerva, Trajan, Hadrian, Antoninus Pius, Marcus Aurelius**

22. Identify these Asian cities for 10 points each::

A. Literally meaning Rivergate, the name Edo was in use from 1180 to 1868, when the name was changed to this.

Answer: **Tokyo**

B. Its original name was Heiankyo "Capital of Peace and Ease", and from 794-1868 it was the capital of Japan.

Answer: **Kyoto**

C At 2100 meters, the Tsing Ma Bridge in this city is the longest suspension bridge to carry both vehicular and rail traffic.

Answer: **Hong Kong**