

Chicago Fullpack
TOSSUPS

1. Although trained as a mechanical engineer, he began taking night school classes in drawing in 1922. After a few brief stints as an illustrator, he moved to Paris and constructed a complete circus in miniature out of wood and wire. Influenced by Joan Miro and Piet Mondrian, he began to construct more abstract art. His sculpture "Universe" stands outside the Sears Tower in Chicago. FTP, name this artist, the creator of the mobile.

Ans: Alexander _Calder_

2. Long a bone of contention in the mathematical world, it states, according to the Zermelo-Frankel formulation, that for any set of disjoint sets, a set can be formed with exactly one element from each of the member sets. Proven consistent by Goedel (GUR-del) in 1940, Paul Cohen demonstrated in 1963 that it was independent from the other axioms in NBG set theory. FTP, name this axiom, also known as Zorn's lemma.

Ans: _axiom of choice_

3. Red Rocket Toy Stores, Famous Players Theaters, Prentice-Hall Publishing, Simon Says dot Com, the Sundance Channel, Simon and Schuster Publishing, Comedy Central, Showtime, Paramount Studios, Star Trek Enterprises, Nickelodeon, and VH1 are all owned, FTP, by what company, also owners Of MTV and Blockbuster?

Ans: _Viacom_

4. His poetic works include _Minorities_, a collection which was published posthumously in 1971, and a translation of the _Odyssey_ into English. As a student at Oxford, he joined an archaeological expedition to Carchemish in 1911, and his experience led to his assignment to intelligence during World War I, when he joined forces with Husayn ibn Ali in his revolt against the Turks. FTP, name this man, who told the story of his military exploits in 1926's _The Seven Pillars of Wisdom_, and who was portrayed by Peter O'Toole in an epic film about his life.

Answer: Thomas Edward _Lawrence_

5. Three were named Nicephorus, two were named Isaac, three were named Andronicus, and there was one each of Phocas, Stauracius, Maurice, and Zeno. The last three were named John, who ruled almost a thousand years after Arcadius, Theodosius II, and Marcianus, the first three. FTP, identify this position, which was also famously held by Leo the Isaurian, Basil the Macedonian, Alexius Comnenus, Irene, and Justinian.

Answer: _Byzantine Emperor_s

6. The title character's husband spends their honeymoon researching a book on domestic crafts in Brabant in the Middle Ages. Other books appearing in the play include a history of civilization and a manuscript in which the author foretells the future, which was written with the help of Thea Elvsted and which is burned by the title character. FTP, identify this play, which features the sinister Judge Brack, the alcoholic Eilert Lovberg, and George Tesman, the husband of the title character in this work by Ibsen.

Answer: Hedda Gabler

7. It has a 66 megahertz system bus, a 512K backside cache, a built-in 100Base-T ethernet connector and a built-in v.90 modem. Also under its Bondi Blue case are a 24 speed CD-ROM drive, a 233 Megahertz G3 processor and a 15-inch monitor, but no floppy drive. FTP, what is this, the best-selling single computer model in the country during the month of September?

Ans: Apple iMac

8. First proposed in 1847 by Vice President George M. Dallas and popularized by Lewis Cass in his 1848 presidential campaign, it was used in the Compromise of 1850 to determine the legality of slavery in Utah and New Mexico Territories. FTP, name this doctrine which sought to avoid sectional conflict over slavery and formed the basis of the Kansas-Nebraska Act.

Ans: popular sovereignty

9. In 1902, the organization responsible for this annual game gave up football in favor of Roman-style chariot races until 1916 when it was reintroduced. Oregon St. beat Duke 20 to 16 on Jan. 1, 1942 in a game that had been relocated to North Carolina because of World War II restrictions on large crowds on the West Coast. In 1947, it began matching the teams from the Pacific Coast Conference and the Big Ten, a tradition it maintained until entering the Bowl Alliance in 1998. For ten points, what is this event usually held in Pasadena, CA?

A: Rose Bowl

10. In Mexico, it roughly parallels the course of the Sierra Madre Occidental and the Sierra Madre del Sur ranges. In Canada, it encompasses a portion of the British Columbia-Alberta border, while in the US, it passes through the states of Montana, Wyoming, Colorado, and New Mexico. For ten points, what is this demarcation which indicates whether a drainage basin principally empties into the Mississippi or the Pacific Ocean?

A: Continental Divide

11. First performed in 1773, this play's alternate title is "The Mistakes of a Night." It tells the story of Kate Hardcastle, who poses as a servant to win the heart of a young man who is too shy to date ladies of his own class. FTP, name this Oliver Goldsmith play.

Ans: She Stoops To Conquer

12. His exploits as creator, hero, lover, magician, and trickster are celebrated in a vast cycle of oral tales. The chief animal of the prehuman animal age, the tribes of the American West considered him a demiurge or a maker of fateful decisions. Among the Plains tribes, he was more of a hero who secured fire and daylight for man and originated human arts. FTP, name this cunning trickster, who was often bested by turning his own greed and cunning against him.

Ans: Coyote

13. First formed under the name, Malice, this goth-oriented band's first single was Killing An Arab, released in 1978. Since then, they've published many albums, among them, "Faith," "Pornography," "Wild Mood Swings," "Kiss Me, Kiss Me, Kiss Me," and arguably one of the greatest album ever made, "Disintegration." FTP, name this band whose lead-singer, Robert Smith, defeated Barbra (Bah-boo-RAH) Streisand in an episode of South Park.

Ans: The Cure

14. This metabolic process has four major steps: an oxidation, a hydration, another oxidation, and a thiolysis. With each repetition of this process, the substrate is shortened by two carbon atoms. Repeated until the substrate's entire tail has been broken into acetyl-CoA, this process enables the cell to harvest energy from fatty acids. FTP, name this process, which takes place in the mitochondria and the peroxisomes.

Ans: beta oxidation

15. He caught cold on the way to the funeral of Clara Schumann in 1896 and died the next year after attending a performance of his Fourth Symphony. Although his early compositions, written as music-master to the Prince Lippe-Detmold, were failures, his career picked up when he led the Hamburg women's choir in the 1860s, producing such works as the Handel Variations for piano. FTP, identify this German composer of Variations on a Theme of Paganini, the Academic Festival Overture, and the German Requiem.

Answer: Johannes Brahms

16. This term refers to any bird in the subfamily Ardeinae of family Ardeidae. They are divided into the typical, night, and tiger varieties, the first of which contains egrets. Most common in tropics, they feed on aquatic animals in shallow water, and nest on stick platforms. FTP name these birds, types of which include the Nankeen, goliath, and great blue.

Answer: Heron

17. She was born in England, but moved to Tennessee after the Civil War, where she made a reputation as a sentimental novelist with That Lass o'Lowrie's. The author of The One I Knew Best of All, an autobiography, and The White People, a supernatural novel, she is best remembered for her books for children. FTP, name this author, best known for Little Lord Fauntleroy, The Little Princess, and The Secret Garden.

Answer: Frances Hodgson Burnett

18. Brought to America from Germany by Margot Fraser in 1966, they are made primarily of cork, with some latex, jute and other natural materials. Over the years, the Fox Trot, Canberra and Trinidad have joined the classic Arizona style. They were once associated mainly with hippies and Earth Mothers, but, FTP, name this brand of footwear, whose suede straps and contoured footbeds have regained popularity in the 90s.

Ans: Birkenstock_s

19. Marshal MacMahon had intended to march his army to the relief of a French army trapped at Metz, but was intercepted by an army under Crown Prince Albert of Saxony and encircled by a second Prussian army under Crown Prince Frederick William. FTP, name this September 1, 1870 battle of the Franco-Prussian War which saw the capture of Napoleon III and led to an uprising in Paris.

Ans: Sedan_

20. It was adapted by Turgenev in an 1870 short story, which told of Kharkov's revenge on his children. The story was also told in A Mirror for Magistrates_ and by Geoffrey of Monmouth and Raphael Holinshed, though the version we know best was influenced by an anonymous play published in 1605. FTP, name the legendary king of Britain whose friends include the loyal Kent and the Earl of Gloucester, who gives his kingdom to his daughters with tragic results in a Shakespeare play.

Answer: King Lear_

21. The ska band Madness wrote a song about him, to which he lent his voice. Born Maurice Micklewhite, he first gained notice with his performance as an officer in 1963's Zulu_. He went on to appear as the title character in Alfie_, and played Homer when Mr. Burns tried to convince Bart that his family no longer loved him on "The Simpsons." FTP, name this actor, who also appeared in Sleuth_ and Educating Rita_, and won an Academy Award for Hannah and Her Sisters_.

Answer: Michael Caine_

22. These objects fall into two types : classical ones with periods of 36 hours to many weeks, and cluster-type with periods under a day. Hubble used them to determine that certain spiral nebulae were actually distant galaxies, because not only their apparent, but also intrinsic brightness can be calculated. FTP name these stars, whose luminosities are calculated from their periods.

Answer: Cepheid variables_

23. His middle name was actually "William," but a clerk at West Point registered it as "Washington" and refused to change it. After serving as the first governor of the Canal Zone, he retired from the army in 1916, but was recalled when the U.S. entered World War I to serve as Quartermaster General. FTP, name this man, who was promoted to major general in 1915 after having spent eight years as chief engineer of the Isthmian Canal Commission, supervising the completion of the Panama Canal.

Answer: George Washington Goethals_

24. Not expecting to play in the game, this backup receiver had broken curfew all week, and was out partying until 7:30AM the day of the game. However, when the starter injured his shoulder on the opening drive, this Green Bay Packer who had only caught 3 passes all year was pressed into duty. For ten points, name this player who had 7 catches for 138 yards and two touchdowns in 1967 during Super Bowl I and now broadcasts Packer radio games?

A: Max _McGee_

25. One type of this general class of reactions takes place in two steps: in the first, one substituent group of the central atom is lost, leaving the central atom positively charged; and in the second, this cation is attacked by an electron-rich species. This type of reaction can also proceed by a one-step mechanism, in which there is the inversion of stereochemistry and the displacement of one of the substituent groups. FTP, name this class of reactions, which can be categorized as SN1 or SN2

Ans: _nucleophilic_ substitution (do accept _SN1_ on an early buzz: all SN1 reactions take place in two steps, but not all nucleophilic substitutions do)

Chicago Fullpack
BONI

1. The 20th century has seen several re-drawings of the Polish borders. Given a description of a Polish geographical feature identify it for ten points apiece.

PART 1: This 516-mile river drains into the Narew River; it was part of the original Curzon line, and helped mark the border where Germany and the Soviet Union partitioned Poland in 1939.

A: Bug River

PART 2: This river, second only to the Vistula in discharge and length in the Baltic drainage basin, is linked to the industrial area of Silesia by the Gliwice Canal; jointly with the Neisse River, it became the boundary for the new Polish-German border at the end of World War II.

A: Oder River

PART 3: This strip of land, ranging in size from 20 to 70 miles across, was perhaps the most controversial feature of the newly-reconstituted Polish geography after World War I; the location of a free city under the control of the League of Nations within this area of land was one of the pretexts Hitler used to invade in 1939.

A: Polish Corridor or Danzig Corridor

2. Identify these authors on a 15-5 basis.

15 points: For years, Homer has mistakenly believed that the tombstone of this author belonged to his mother. When he discovers his mistake, he kicks it and repeatedly proclaims his hatred of this man.

5 points: Homer also says "Leaves of Grass my ass!" to make his point more emphatic.

Answer: Walt Whitman

15 points: Lisa quotes this author to suggest that Bart's inability to laugh indicates his lack of a soul.

5 points: In response, Bart replies that he "is familiar with the works" of this poet and 1971 Nobel Prize winner.

Answer: Pablo Neruda

3. RIP G.O.P. VPs. Provide the names of these dead Republican Vice-Presidents on a 10-5 basis. Ten points if you can name each from his birthplace and year of birth; 5 if you need the President for whom he served.

1. (10) Paris, Maine 1809
(5) Abe Lincoln

Answer: Hannibal Hamlin

2. (10) Unionville Center, OH 1852
(5) Teddy Roosevelt

Answer: Charles *Fairbanks*

3. (10) Topeka, Kansas
(5) Herbert Hoover

Answer: Charles *Curtis*

4. Identify these operatic composers from works on a 15-5 basis.

1. 15 points: Apollo and Hyacinth
5 points: La Clemenza di Tito

Answer: Wolfgang Amadeus Mozart

2. 15 points: La Vie Parisienne
5 points: Tales of Hoffman

Answer: Jacques Offenbach

5. Given a country, name its current head of state, for the stated number of points.

5- France

Ans: Jacques Chirac

10- Ireland

Ans: Mary McAleese

15- Lithuania

Ans: Valdas Adamkus

6. The Schoolhouse Rock revival seems to have faded, so let's see how much you remember from this time around. Given a lyric from a Schoolhouse Rock tune, supply the next line FTPE.

1. A noun's a special kind of word/it's every name you ever heard/I find it quite interesting/

Ans: A noun's a person, place or thing

2. There's a telegraph line/you've got yours and I've got mine/

Ans: It's called the nervous system

3. At Yorktown the British could not retreat/bottled in by Washington and the French fleet/

Ans: Cornwallis surrendered and finally we had won (Hooray!)

7. FTPE, given the name of an amino acid, tell whether its R group is aliphatic, aromatic, polar, positively charged, or negatively charged.

A. Glycine

Ans: aliphatic

B. Phenylalanine

Ans: aromatic

C. Serine

Ans: polar

8. For the stated number of points, name the revolutionary Russian political party

5: The name literally means "minority;" it was Trotsky's original political party

Answer: Mensheviks

10: They ideologically followed the Narodniki (Populists), but were often seen as political terrorists. They were the dominant political party immediately after the October Revolution.

Answer: Socialist Revolutionary party or SR

15: Formed by the historian Miliukov, they lead the first Duma in 1906. Largely professors and businessmen, their moderate stance made them disliked by the conservatives and radicals, and they had little effect after 1917

Answer: Constitutional Democrats or Kadets Math/Sci (tried to avoid a lot of math)

9. Answer the following questions relating to Euclidean and non-Euclidean geometries.

a) The development of non-Euclidean geometries came from the study of which of Euclid's postulates?

Ans: fifth or parallel postulate

b) In what sort of non-Euclidean geometry is the sum of the angles of a triangle less than 180 degrees?

Ans: hyperbolic or Lobachevskian

c) In 1899, he published The Foundations of Geometry, which described new and rigorous axioms for Euclidean geometry.

Ans: David Hilbert

10. Answer the following about the single season home run record in major league baseball:

PART 1: Until Mark McGwire and another Cub, Sammy Sosa, smashed the National League record in 1998, it had been 56 homers set in 1930 by this man.

A: Hack Wilson

PART 2: Roger Maris, the overall baseball record holder until 1998, had broken the previous record of 60 held by Babe Ruth by hitting his 61st home run on a 2-0 fastball off of this Boston pitcher.

A: Tracy Stallard

PART 3: Prior to Maris and Babe Ruth, the single season record had been held by this player from the Chicago White Stockings whose feat was accomplished due mainly to the small confines of his homefield of Lakefront Park, a stadium with dimensions so small that except for the 1884 season, special ground rules said that balls hit over the short fences were counted as doubles, not home runs.

A: Ned Williamson

11. Identify the famous historical Roman from clues, 30-20-10.

30 He appears as a character in Cicero's dialogues *De Re Publica* and *De Amicitia* (Amih-KIH-tee-a) and is used by Cicero to express his own views.

20 He was the patron of Terence and the mentor of Polybius.

10 As consul in 147 BC he brought the Third Punic War to a close and destroyed Carthage.

Ans: Publius Cornelius Scipio Aemilianus or Scipio Africanus Minor

12. Given a product, name the largest company that owns its manufacturer, TPE. For example, if I said Sports Illustrated, you'd say Time Warner.

1. Random House Third New International Dictionary

Ans: Bertelsmann Media Group, AG. (accept BMG)

2. Starbucks Coffee

Ans: Starbucks, Inc.

3. Pepto Bismol

Ans: Procter and Gamble

13. Answer the following random bits of trivia concerning winners of the Heisman trophy:

Part 1: this player from Syracuse became the first black to win the award in 1961.

A: Ernie Davis

Part 2: In 1956, his 2-8 Notre Dame team made this future Green Bay Packer the only Heisman winner to come from a losing team.

A: Paul Hornung

Part 3: Until Charles Woodson won it in 1997, the highest finish by a defensive player in Heisman voting came when this Pittsburg defensive end finished second to South Carolina running back George Rogers in 1980.

A: Hugh Green

14. Identify these works by William Faulkner, for the stated number of points.

1. 5 points: This novel tells the story of Joe Christmas.

Answer: Light in August

2. 10 points: The protagonist of this 1948 novel is Lucas Beauchamp, who is wrongly accused of murder.

Answer: Intruder in the Dust

3. 15 points: Faulkner's second novel, this satire depicts a group of artists living in New Orleans.

Answer: Mosquitoes

15. Answer these questions about that famous traitor, Judas, 5-10-15.

1. What did Judas do to identify Jesus to the armed guards?

Ans: he _kiss_ed Jesus (accept equivalents)

2. In what place did Judas betray Jesus?

Ans: the _Garden of Gethsemane_

3. Always listed last among the disciples, what position did Judas have?

Ans: _treasurer_

16. Identify the medieval heresy from a brief description FTPE.

1. The eponymous 1208 Crusade achieved little in the way of religious results, so this form of Manichaeism survived in southern France until the fourteenth century.

Ans: _Albigensian_ism (Do not accept Catharism)

2. Strongly influenced by the ideas of John Wyclif, this Bohemian group denied the infallibility of an immoral pope and asserted the ultimate authority of Scripture over the Church. Its leader was burned in 1414 at the Council of Constance.

Ans: _Huss_ites

3. Subject of a famous poem by John Milton, they were first declared heretics in 1184. Their priests took a strict vow of poverty and rejected the papacy, purgatory, and the mass.

Ans: _Waldensian_s

17. Identify these twentieth-century artists from works, for the stated number of points.

1. 5 points: _I and the Village_ and _King David_

Answer: Marc _Chagall_

2. 10 points: _Delights of the Poet_ and _Nostalgia of the Infinite_

Answer: Giorgio de _Chirico_

3. 15 points: _Charles Bridge_ and _The Betrothed of the Wind_

Answer: Oskar _Kokoschka_

18. Identify these works of Bertolt Brecht, for the stated number of points.

1. 5 points: This play in 12 scenes is set during the Thirty Years War.

Answer: Mother Courage and her Children or Mutter Courage und ihre Kinder

2. 10 points: This "parable in 10 scenes" concludes with the revelation that Shui Ta and Shen Te are one and the same person.

Answer: The Good Woman of Setzuan or Der gute Mensch von Sezuan

3. 15 points: Brecht's first professional production was a 1924 collaboration with Feuchtwanger based on this Elizabethan drama.

Answer: Edward II

19. Imagine that you are playing with an oscilloscope, and you are plotting the magnitude of one sine wave against another. For 15 points each,

a) If both sine waves have the same magnitude and frequency and are 90 degrees out of phase, what geometric shape will you see?

Ans: a circle

b) If the sine waves still have the different frequencies, you may be able to plot one of these stable patterns, comprised of many different 'lobes'.

Ans: Lissajous figure

20. One of the seminal works of modern Anthropology is Ruth Benedict's Patterns of Culture, in which she compared the cultures of three peoples.

For 15 points, Benedict spent several years living among these peoples of New Mexico, whom she discussed in Patterns of Culture.

Ans: Zuni Indians (prompt on Pueblo)

For another 15 points, name either of the other two peoples who Benedict mainly analyzes in Patterns of Culture, one from Vancouver Island, the other from Melanesia.

Ans: Kwakiutl or Dobu

21. 30-20-10, Name the building from clues

30- It is the tallest mixed-use building in the world & has its own ZIP code.

20- Designed by Skidmore, Owings, and Merrill and built in 1969, it has 100 stories, and is the tenth-tallest building in the world.

10- Chris Farley died in his 62 nd-floor apartment in this Chicago building.

Ans: John Hancock Tower, Chicago (Chicago is needed before the 10; there is a JH Tower in Boston.)

22. Star Wars bonus time! Answer these questions about the new Star Wars movie, 5-10-15.

1. In the upcoming Star Wars movie, who stars as the young Obi-Wan Kenobi?

Ans: Ewan _MacGregor_

2. Who stars as the young Anakin Skywalker?

Ans: Jake _Lloyd_

3. What is the title of the new Star Wars movie?

Ans: Star Wars: Episode I -- _The Phantom Menace_

23. FTPE, name these W.B. Yeats poems from lines:

1. Romantic Ireland's dead and gone / It's with O'Leary in the grave

ANS: _September 1913_

2. But I, being poor, have only my dreams; / I have spread my dreams under your feet

ANS: _He Wishes For the Cloths of Heaven_ (Note: also accept _AEDH Wishes For the Cloths of Heaven_)

3. But one man loved the pilgrim soul in you, / And loved the sorrows of your changing face

ANS: _When You Are Old_

24. The physical properties of polymers are strongly influenced by the stereochemistry of their monomers. FTPE, answer these questions about the types of polymers that arise from different stereochemical patterns.

A. A random assortment of 'R' and 'S' monomers produces this kind of polymer, which tends to have low density and a low melting point.

Ans: _atactic_ polymer

B. If the monomers are either all 'R' or all 'S', this kind of high-density polymer results.

Ans: _isotactic_ polymer

C. If the monomers alternate between the 'R' and 'S' configurations, this type of highly ordered polymer results.

Ans: _syndiotactic_ polymer