

1. This poem's first five lines, a series of terse epithets, are repeated as the last five lines. In between the two, its author expresses admiration for the raw vitality of the "City of the Big Shoulders." FTP name this poem by Carl Sandburg which shares its name with the winner of the 2002 Academy Award for Best Picture.

Answer: "Chicago"

2. Early works included scenes of the South such as *The Cotton Pickers* and *A Visit for the Old Mistress*, but he is best known for his evocations of the New England coastal waters, painted after he moved to the family compound at Prout's Neck, Maine in 1883. FTP, name this artist whose works include *Life Line*, *Breezing Up*, and *Gulf Stream*,

A: Winslow Homer

3. Each has three parts, a sugar, a phosphate and a base. The phosphates form hydrogen bonds to give their polymer its famous double helix shape. FTP what is this class of biochemicals which include guanine and adenosine and from which nucleic acids are made?

Answer: **Nucleotides**

4. Long before South Carolina, a secessionist movement stirred among New England merchants who were disgruntled with the Embargo Act of 1812. Some northern states refused to supply the federal government with militia and in Dec. 1812 summoned a convention to consider how to deal with the undesired war with England and the issue of states' rights. FTP, what was this motley assembly which met in Connecticut but was quickly forgotten when the War of 1812 ended?

Answer: **Hartford Convention**

5. He was a native of the island of Samos, but did not like its tyrannical rule and decided to move to Croton in southern Italy. He and his disciples discovered that the intervals between musical notes can be expressed in numerical form, but he is most well known for a fundamental idea in geometry. FTP, identify this man whose namesake theorem states that for a right triangle, the hypotenuse squared equals the sum of the squares of the sides.

Answer: **Pythagoras**

6. In Pennsylvania a police dog named Dolpho has been accused of this after biting and dragging a nine-year old black bystander. The Florida Highway Patrol webpage explicitly condemns the practice and insists that all of its officers will only stop vehicles based on a violation being observed. Leading directly to violations like "driving while black," FTP what is this practice of projecting guilty intentions onto people because of their race?

Answer racial profiling

7. It is the drinking of 15 bottles of this soft drink that makes Forrest Gump need to use the bathroom when he meets with President Johnson in his eponymous movie. Pepsi has recently attempted to copy its flavor with the Mr. Green entry in its SoBe (soh-bee) line. Created in Waco, Texas, a year before Coca Cola was patented, FTP name this soft drink which Coke tries to combat with Mr. Pibb.

Answer: **Dr. Pepper**

8. In it Paul explains that salvation cannot be earned by obeying Jewish laws or through actions, but only by faith in Jesus Christ. He addresses churches in central Asia Minor, and asserts the quality of converts of Jewish and Gentile backgrounds. FTP name the epistle that includes the line "for whatsoever a man soweth, that shall he also reap," the New Testament book between Second Corinthians and Ephesians.

Answer: **Galatians**

9. The average deflection was about 0.87 degrees, but 1 in 20,000 incoming particles were deflected more than 90 degrees. Conducted by Geiger and Marsden from 1909-13, it disproved Thomson's plum pudding model of the atom, showing that atomic charge is concentrated in a nucleus. FTP, name this experiment, in which an expensive sheet of atoms was bombarded with alpha particles at the direction of Ernest Rutherford.

Answer: the Rutherford gold foil experiment

10. Noted as the heir of Joseph Conrad, he insists that the men and women of the first and third worlds be judged by the same standards, writing, "The world is what it is. Those who are nothing, who allow themselves to become nothing, have no place in it." These lines begin his novel *A Bend in the River*. FTP, name his Trinidadian winner of the 2001 Nobel literature prize and author of *A House for Mr. Biswas*.

A: V.S. **Naipaul**

11. Eddie Mathews was the first victim, injuring his hand in 1954, one week after his appearance. Vinny Testaverde was hurt in a motor-scooter accident six days following his appearance in 1986. More recently, Eric Crouch's undefeated Nebraska team was crushed just a day after the magazine touted him as the Heisman favorite. FTP these were all victims of what magazine's supposed cover jinx?

Answer: **Sports Illustrated** (acc. any other words with "SI")

12. Between Reed Hall and the Lowood School, life just wasn't looking so hot. Fortunately, the titular heroine grew up and got the heck out of there—to Thornfield Hall, where all sorts of sordid secrets awaited her. From the parentage of her charge Adele, to the strange laughter in the attic, many mysteries would be revealed in the course of this novel. FTP, name this novel by Charlotte Bronte where a governess falls in love with her employer, a certain Mr. Rochester.

Answer: **Jane Eyre**

13. After his forces were defeated by the Earl of Pembroke in 1306 near Perth, this leader retreated to a cave where he saw a spider continue to re-spin a web after it kept falling apart; he claimed that this inspired him to continue fighting for his people's independence. In 1314 20,000 soldiers under Edward II moved north to challenge him, only to be routed by his forces at Bannockburn. FTP name this Scottish hero and monarch.

Answer: **Robert the Bruce** (acc. Robert I)

14. This element's most common allotrope is a white solid which is stored under water to prevent it from reacting with air. The more stable red form does not react with air, but can be easily ignited via friction. Often used in fertilizers and in fireworks, this Group 5 nonmetal behaves more like arsenic and antimony than nitrogen. Also used in match heads, FTP, what is this element whose name means "bearer of light"?

Answer: **phosphorus**

15. This deity of mythology was driven from his throne and according to some versions, fled to Italy where he sponsored a Golden Age. Other versions say he was tossed down into Tartarus with the rest of the Titans. FTP, who was this father of Zeus who lost his throne to a revolution which his own wife and mother helped sponsor?

Answer: **Cronus** or Saturn

16. This "City of Roses" is home to Lewis and Clark College and the famous independent bookstore "Powell's." On clear days, citizens of this city can see Mt. St. Helen's, Mt. Rainier and Mt. Hood from one of the cities' ten bridges crossing the Willamette River. For 10 points, name this largest city in Oregon, home to the NBA's TrailBlazers.

Answer: **Portland**

17. He is nicknamed "The Subtle Fox." Originally a leader among his people, he was kicked out of his tribe for drunkenness, which is enforced by Colonel Munro, the commander of British forces at Fort William Henry. As an act of vengeance against the colonel, he kidnaps Munro's daughters Alice and Cora, and attempts to marry Cora. However, Cora dies, and he plummets to his death after being shot by Hawkeye. FTP, name this Huron, the villain of *Last of the Mohicans*.

Answer: **Magua**

18. These stand in contrast to the prisoner's dilemma, in which two partners in crime are separated, each is offered a lighter sentence if they confess and implicate the other, and each faces a harsher sentence if the other confesses. Unlike the prisoner's dilemma, this type of game offers the participant one rational objective, because whatever one gains the other loses. FTP name this type of game central to game theory.

Answer: **zero-sum** games

19. Having lost the top praetorship to his brother-in-law, this man persuaded the brother-in-law to join a conspiracy to assassinate the head of state. His personal vendetta plunged the state into civil war which caused his suicide. FTP name this Roman who died at Philippi along with his brother-in-law, Marcus Brutus.

Answer: Gaius **Cassius** Longinus

20. It is spectral class G7 and takes about 200 million years to orbit the center of the Galaxy. Occasionally, people can see Bailey's Beads around its edge when most of the photosphere is covered. Coronal mass ejections can cause intense auroras on Earth. Prominences and flares can be found near the surface of, FTP, what star closest to Chattanooga?

Answer: the **Sun or Sol**

21. There are three ways one can reach this island, on which no females are allowed: it sometimes presents itself to children on the verge of sleep; baby boys who fall out of prams while nurses aren't looking are sent there if not found in a week; or visitors can be brought there by its most famous resident, who claims to have run away from his parents on the day he was born. Containing Picanniny Village and the Lost Boys' House, FTP what is this fictional island inhabited by Captain Hook and Peter Pan?

Answer: **Never-Never Land**

22. The year's the same: the Boston Celtics win the NBA championship; Tony Dorsett wins the Heisman trophy; Paul McCartney and Wings' "Silly Love Songs" is the #1 song of the year; the Concorde makes its first commercial flight; and Mao Zedong passes away. These events all occurred, for ten points, in what year, the bicentennial of America's independence from Great Britain.

Answer: **1976**

23. Historians suspect that their name is an adaptation of the German word Eidgenossen, or "confederates," as it first was used to designate citizens of Geneva who didn't accept the claims of the Duke of Savoy over that city. In the 16th and 17th century they were most populous in Southern France, and fear of their influence, and concerns about the accession of Henri IV, led to the St. Bartholomew's Day Massacre. FTP who are these historical protestants of France?

Answer: **Huguenots**

1. Answer the following about some crazy happenings on the Iberian Peninsula FTPE.

A. This tribunal began in Spain in the late 15th century, and contemporary estimates suggest that over 2,000 people were executed by it.

Answer: **Inquisition**

B. Meaning “act of faith,” this was the elaborate ritual at which prisoners of the Inquisition expressed repentance for their sins, after which they were often burned alive.

Answer: **auto da fe**

C. The confessor to Isabella I, this man led the Inquisition in Spain from 1483 till his death in 1498.

Answer: Tomas de **Torquemada**

2. FTPE, identify the cell structure given a description.

(10) Consisting of two types of globular protein subunits, these objects make up cilia and flagella.

Answer: **Microtubules**

(10) Sometimes called the “suicide bag,” this organelle has been known to destroy the entire cell that it is in, although its primary purpose is of digestion within the cell.

Answer: **Lysosome**

(10) It could be considered the cell's shipping and receiving department, as vesicles unite with it. Its shape can best be described as a stack of water balloon pancakes.

Answer: **Golgi** body or apparatus

3. Name these important US figures of the Mexican War FTPE.

10) He was commander of the northern campaign and the victor of Monterrey, he was also elected twelfth president of the United States in 1848.

Answer: Zachary **Taylor**

10) He was commander of the southern campaign and the victor of Vera Cruz. He was also General-in-Chief of US forces at the beginning of the Civil war and architect of the anaconda plan.

Answer: Winfield **Scott**

10) This officer from New Hampshire used his Mexican War fame to be elected fourteenth President of the United States in 1852.

Answer: Franklin **Pierce**

4. **TRAVELS WITH CHARLIE:** Last weekend at the Rock and Roll Hall of Fame, your genial quizmaster saw a 12-minute presentation on the impact of music videos. (Did you know MTV used to show music videos?) The film singled out four artists whose innovative videos helped establish their style. Name those artists from songs featured, 5-10-20-30:

(a) “Material Girl,” “Express Yourself,” “Vogue”

Answer: **Madonna** (accept Madonna **Ciccone**)

(b) “Billie Jean,” “Bad,” “Thriller”

Answer: **Michael Jackson** (yes, prompt on just Jackson or “that noseless freak,” other equivalents)

(c) “Into the Great Wide Open,” “Free Falling,” “Don’t Come Around Here No More”

Answer: Tom **Petty** (and the Heartbreakers)

(d) “Steam,” “Sledgehammer”

Answer: Peter **Gabriel**

5. Name these John Irving novels which have all been turned into movies FTPE.

A. This novel about the author of “The Pension Grillparzer” ends in his assassination by childhood acquaintance Pooh.

A. The **World According to Garp**

B. This novel focuses on the Berry family, including John, the narrator, and his sister, Frannie, whom he incestuously desires, and eventually has.

A. The **Hotel New Hampshire**

C. In this work orphan Homer Wells is trained in dilation and curettage by father figure Dr. Wilbur Larch.

A. The **Cider House Rules**

6. Answer the following on the Carnot engine FTPE.

10) 2 steps in the cycle are given this name, because they occur at constant temperature.

Answer: **isothermal**

10) The other 2 steps are given this name, because they involve no heat flow, hence there is no entropy change.

Answer: **adiabatic or isentropic**

10) What is the efficiency of a Carnot engine operating between two heat reservoirs at 250 Kelvin and 750 Kelvin?

Answer: **2/3 or 67% or 66.7%**

7. I'll name some nations, and you tell me what one country borders them all FTPE; if you need that country's capital, you'll get five.

A. (10 pts.) Poland, Ukraine, Hungary, Austria, Czech Republic

(5 pts.) Bratislava

Answer: **Slovakia**

B. (10 pts.) Turkey, Iraq, Jordan

(5 pts.) Damascus

Answer: **Syria**

C. (10 pts.) Brazil, Argentina

(5 pts.) Montevideo

Answer: **Uruguay**

8. Identify these labor unions FTPE.

A. Under its most powerful leader, Terence Powderly, this union brought about Labor Day and opened its membership to all but doctors, lawyers, bankers and liquor manufacturers. It died out before 1900.

A. **Knights of Labor**

B. Under Samuel Gompers this trade union stayed conservative and didn't advocate the strike, leading to its stability.

A. **AFL** (American Federation of Labor)

C. Their name comes from the men who used to drive wagon trains hauling loads, but now this union generally includes truckers, drivers and loaders of all sorts.

A. **Teamsters**

9. **VISUAL BONUS** [*hand out attachment*] Some artists have a distinctive style, so you know it's their work even when you don't know the name of the painting. Here are works by 3 such artists; name the artist FTPE:

Answers: 1) **Piet Mondrian**

2) **Rene Magritte**

3) **M.C. Escher**

EDITOR'S NOTE: Your genial quizmaster is currently trying to assemble his jigsaw puzzle of #3.

10. Identify the Dickens' novels in which you'd find these characters on a 10-5 basis.

A. (10 pts.) Uncle Pumblechook; the Pocket family

(5 pts.) Abel Magwitch; Philip Pirrip

A. **Great Expectations**

B. (10 pts.) Mr. Murdstone; Mr. Micawber

(5 pts.) Uriah Heep; Agnes Wickfield

A. **David Copperfield**

C. (10 pts.) Stephen Blackpool; Josiah Bounderby

(5 pts.) Tom and Louisa Gradgrind

A. **Hard Times**

11. Given a description of a god from mythology, name the god for 5 points and get another 5-points for identifying the chemical compound or element named for him.

A. Egyptian sun god:

A: **Amon-Re** (accept Re)

Ammonia (NH₃)

B. Norse god of thunder:

A: **Thor**

Thorium (Th)

C. Greek god of the heavens or sky:

A: **Uranus**

Uranium (U)

12. Logs: they're better than bad, they're good! Find these FTPE.

A. log base 3 of $x = 2$.

A. 9

B. log base 2 of $1/8$

A. -3

C. Solve this exponential equation for x : $2^{3x} = 16$.

A. 4/3

13. Why is science still looking for the missing link? Given the film that starred Brendan Fraser, name it FTPE.

10) This film featuring Fraser as a prehistoric caveman awakened from his frozen slumber also starred Pauly Shore and Sean Astin.

Answer: ***Encino Man***

10) Once again, Fraser is in a foreign time as he leaves a bomb shelter only to be smitten with Alicia Silverstone.

Answer: ***Blast From The Past***

10) Fraser probably wishes he could be in another time period after starring in this bomb as cartoonist Stu Miley who creates the title character. It also starred Bridget Fonda, Dave Foley, and Chris Kattan.

Answer: ***Monkeybone***

14. FTPE, how many carbon atoms are present in one molecule of:

10) calcium carbonate

Answer: **1**

10) glucose

Answer: **6**

10) ethane

Answer: **2**

15. Answer the following related literature questions FTPE:

A. What Irish poet wrote the poems "The Second Coming" and "Sailing to Byzantium"?

A. William Butler Yeats

B. What Chinua Achebe novel takes its title from "The Second Coming"?

A. Things Fall Apart

C. What 2001 Philip Roth novella about David Kepesh takes its name from a line in "Sailing to Byzantium"?

A. The Dying Animal

16. Measurement purists dislike Friedrich Mohs' scale of hardness because it's non-linear, but it's still out there in use by many today. Ten different minerals represent the integers 1 through 10 on the Mohs' scale. FTPE name any 6.

Answers: any 6 of **talc , gypsum , calcite , fluorite , apatite , orthoclase , quartz , topaz , corundum , diamond**

17. Time to name that Greek philosopher FTPE.

A. This Sophist is famous for his quote "Man is the measure of all things."

Answer: **Protagoras**

B. Mentored by Leucippus, this Greek coined the term "atom" to refer to the ultimately indivisible units of matter.

Answer: **Democritus**

C. This philosopher thought there were only four elements: earth, air, fire, and water; he probably didn't really jump into Mt. Etna, though.

Answer: **Empedocles**

18. Identify these poetic meters FTPE:

A. Unstressed, stressed

A: **Iambic**

B. Stressed, unstressed

A: **Trochaic**

C. Stressed, stressed

A: **spondaic**

19. For ten points each, given an African colony, identify its controlling country in 1914.

A) Cameroon.

Answer: **Germany**

B) Libya.

Answer: **Italy**

C) Nigeria

Answer: **Great Britain**

20. 30-20-10 Name the composer from works.

A. (30 pts.) Variations on a Fugue and Theme from Handel; Tragic Overture

B. (20 pts.) Variations on a Theme by Paganini; German Requiem

C. (10 pts.) Academic Festival Overture

A. Johannes Brahms

21. 30-20-10:, get this guy

30: This Russian scientist's most famous work began as a study in the digestion process in canines.

20: For this research on gastric juices, he won the Nobel Prize for physiology and medicine in 1904.

10: Although his Nobel Prize is for physiology and medicine, his research was more influential in psychology. The results he published in 1903 coined the term "conditioned reflex."

Answer: **Ivan Pavlov**

22. The Nine Worthies was a medieval list of the world's greatest warriors. For ten points each, given a clue about a member of this list, identify him.

A) His conquering of Canaan resulted in that land being distributed amongst the twelve tribes of Israel. The Bible also states that he conquered Jericho by bring the walls down with the rather passive strategy of blowing rams' horns and shouting with other Israelites.

Answer: **Joshua**

B) He conquered the Danes, Bavarians, Lombards, Slavs, and Saxons while creating the largest Western empire since the fall of Rome.

Answer: **Charlemagne**

C) According to legend, he cut the Gordian knot. More historically, he conquered Syria, Egypt, and Persia, and gained control as far to the east as northwest India, at which point in time his men refused to march any further.

Answer: **Alexander the Great**

