

Valencia Delta Burke Invitational 2004—Round 11

Questions by CB with Math by Boris, Science by Elissa Caffery, and Help from Illinois

1. This author's birth name was O'Flaherty, and she didn't begin writing until she was 39. Her first novel, *At Fault*, sold tepidly, but her next two collections of short stories made her a popular writer. Her story "The Storm" was excised from the first of those collections due to its unashamed portrayal of a woman's infidelity. That controversy foreshadowed the outrage that greeted her best-known work, an 1899 novel about Edna Pontellier. FTP name this author of *Bayou Folk* and *The Awakening*.

A. Kate Chopin

2. Its salt with potassium was once a common sedative, and the name of its ion still also means a dull aphorism. Its color disappears when added to alkenes, and with silver chloride, its silver salt is used in photography. Liebig mistook it for "liquid iodine chloride", but Balard recognized it as a new element; FTP, name this third of the halogens.

A. bromine or bromide

3. The title figure sits to the right of a framed drawing. A green curtain dominates the upper and middle left of the painting, and the figure's feet rest on a small wooden box. The figure herself faces left, wearing a white head scarf and a black dress with her hands folded on her lap. Among the most famous paintings of the 19th century, FTP name this work subtitled "Arrangement in Grey and Black, No. 1."

A. The Artist's Mother (acc. "Whistler's Mother")

4. Given the birth name Emrys, he was said to be the son of a nun of royal descent and either an angel or incubus, depending on the source. One story says that after the slaughter 460 British nobles by Saxons, this figure helped the king of the Britons, Ambrosius, bring stones from Ireland to create the Giant's Ring, now called Stonehenge. He then helped Ambrosius's son, Uther, to conceive a child with Igraine, a child he then tutored. FTP name this magician who advised King Arthur.

A. Merlin

5. This faction was organized during the reign of Herod the Great in opposition to his idolatry. In 6 CE, when Cyrenius, the Roman governor of Syria, attempted a census, they revolted under the leadership of Judas of Galilee and a priest named Zadok. For the next sixty odd years they sporadically revolted or attacked Jews whom they felt adopted Roman ways. So named for their fervent adherence to the Torah, FTP name this group finally destroyed by their mass suicide on the fortress of Masada whose name is now synonymous with one who displays excessive fervor.

A. Zealots

6. Some camps that one can find on the so-called "Normal Route" to the summit of this mountain include Canada, Berlin and Plaza del Mulas, where one can rent mules to carry baggage. Because it's possible to hike to the peak, inexperienced climbers often make the attempt, leading it to have one of the three highest death tolls of any mountain. Attempts to scale it begin with a bus ride from Mendoza to the resort of Puente del Inca. The 67th-highest in the world, FTP name this peak in Argentina that is the highest in the Western Hemisphere.

A. Mt. Aconcagua

7. A one-time teacher of a course in tobacco spitting at the Springfield Adult Education Annex, his Stonecutter's number is 12. Though he attends church, in one episode he and his nearly constant companion are found by Lisa meditating in a Buddhist temple with Richard Gere. Also, his apartment shares a glass wall with a Jai Alai court. The sculptor of Mt. Carlmore, FTP name this co-worker of Homer Simpson who may be more than friends with Carl Carlson.

A. Lenny Leonard

8. Its first chapter is simply titled, "I Am Born." After a happy early, the title character's mother marries the cruel Edward Murdstone, who beats him until one day the boy bites Murdstone's hand. For this he is sent to Mr. Creakle's school, where his friend Steerforth protects him. As a man he first marries Dora Spenlow, but eventually ends up with the angelic Agnes Wickfield. Also featuring the kindly Micawber, who exposes the wrongdoings of Uriah Heep, FTP this is what novel by Charles Dickens?

A. David Copperfield

9. Dr George Ricaurte of Johns Hopkins had to retract a study which suggested it was very dangerous when he found he had accidentally used methamphetamine instead. Its possible neurotoxicity might be prevented by Prozac. Though it also affects dopamine, the drug's effects are mainly caused by a massive release of serotonin reserves, causing euphoria and enhanced empathy. FTP name this club drug also known as MDMA.

A. ecstasy or MDMA before mention

10. At the age of 16, this man worked as a surveyor for Thomas, Lord Fairfax, on land in the Shenandoah Valley. Later he took a position as a major in the Virginia militia and traveled to Fort LeBouef (la-buff) in Pennsylvania, delivering an ultimatum to French forces there to leave the area. Later, after a stint in the House of Burgesses and some well known military exploits, he laid the cornerstone for the US Capitol Building in 1793. Name this soldier, farmer and politician, FTP, known for his Farewell Address, which was never actually delivered, and for being the first president of the US.

A. George Washington

11. For ten tasty math points, find the total length of the minor axis of the ellipse that has for vertices the points (-2, 5) and (-2,-5) and for foci the points (-2, 3) and (-2,-3).

A. 8

12. Countries compare this value by using the purchasing power parity or current exchange rate methods. This parameter fails to account for negative externalities, but its nominal value can be corrected to the real value using inflation rates. It is generally regarded to be the sum of consumption, investment, government spending, and the difference of exports and imports, and it does not include investments abroad. FTP name this measure of the total goods and services produced by a territory per unit time.

A. GDP or Gross Domestic Product

13. Richard Hare developed a two level version of this theory from the Kant-like principle of universalizability. A form of consequentialism, its “rule” version is generally less controversial than its “act” version. FTP identify the moral theory that was advocated by Jeremy Bentham and J.S. Mill and that aims to produce the greatest happiness.

A. Utilitarianism

14. This author’s *Fasti* is a poetical calendar of the Roman year, though only six months were completed. His *Heroides* are a series of verse letters written from the points of view of mythological women to their absent lovers. His *Tristia* and *Epistulae ex Ponto* were written in order to curry favor with Augustus to recall him to Rome from exile on the Black Sea, though he never made it back. Author of *Ars Amatoria*, or *Art of Love*, FTP name this Roman who also compiled myths of shape-change in *Metamorphoses*.

A. Ovid

15. Air potato is often considered a primitive member of this group, with uncharacteristic reticulated leaf venation. More typical specimens have scattered vascular bundles, adventitious roots, flower parts in multiples of three, and parallel leaf venation, and include arums, palms, lilies and grasses. FTP, identify these flowering plants with one cotyledon.

A. monocots

16. This man’s study “The Philadelphia Negro,” written for the University of Pennsylvania, is considered a founding document of urban sociology. He later coined the term “the talented tenth” to refer to the elite of American Black people from whom leaders could be chosen. Antagonistic to Booker T. Washington’s ideas of assimilation, he was pivotal in the Niagara Movement and the founding of the NAACP. Buried in Ghana, FTP name this man whose best known work is *The Souls of Black Folk*.

A. W.E.B. DuBois (doo-BOYCE, but accept doo-BWAH).

17. One of its sects is the Valentinian, which believed matter, especially the human body, to be evil. Its adherents in general held that there was a lesser god, Yaldabaoth, or the Demiurge, which ruled the Earth. Exemplified by the Gospel of Thomas, much of what is known about it came from the discovery of the texts at Nag Hammadi. FTP what is this Christian heresy whose name comes from the Greek for “knowledge”?

A. Gnosticism (acc. Gnostics)

18. A city official named Robert Hubert claimed to be responsible for this event in an open court, though it was ascertained that it had begun accidentally in Pudding Lane. Chief Magistrate Thomas Bludworth did nothing to take command of the situation, allowing the devastation of over 13,000 houses, 86 churches, and numerous other buildings. Lasting from September 1 through 6 of 1666, FTP what was this conflagration that allowed much of a large European city to be rebuilt?

A. Great London Fire

19. Its radar system, by measuring synchrotron radiation, found that Jupiter's radiation belts were more intense than previously thought during a flyby in on its way to its primary target. After a close encounter with Phoebe, it achieved orbital insertion in July, and on Christmas Eve it will launch the Huygens probe toward Titan. FTP, name this NASA spacecraft designed to observe Saturn, named after the Italian scientist who discovered the division in Saturn's rings.

A. Cassini or Cassini-Huygens

20. Born in Lachine, Quebec, to Russian-Jewish immigrant parents, he attended college at Northwestern, his first acquaintance with the city in which he would live and set most of his works. His first novel was 1944's *Dangling Man*, and since then he has received acclaim for works like *Mr. Sammler's Planet*, *Seize the Day*, and *Humboldt's Gift*. FTP name this winner of the 1976 Nobel Prize for literature, author of *Ravelstein* and *Herzog*.

A. Saul Bellow

Valencia Delta Burke Invitational 2004—Round 11 Bonuses

1. Random cancer biology questions FTPE.

A. These genes, which often code for growth factors or protein kinases, can cause cancer when they are activated by a gain-of-function mutation.

A. proto-oncogenes or oncogenes

B. These genes, such as p53, usually prevent cancer by regulating the cell cycle. Loss-of-function mutations in them can cause cancer.

A. tumor-suppressor genes

C. Cells with serious DNA damage ordinarily undergo this process of programmed death, although cancer cells do not.

A. apoptosis

2. FTSNOP, answer the following about your friend and mine, the ellipse.

A. F15P, an ellipse has major and minor axes of 10 and 6, respectively. What is its area?

Answer: 15B

B. FTP, an ellipse is the set of points whose combined distance from two points A and B is a constant. What name is given to the points A and B?

Answer: foci or focus

C. F5P, what more specific term denotes an ellipse whose semimajor and semiminor axes are equal?

Answer: circle

3. Answer the following about the Trail of Tears FTPE.

A. The Trail of Tears refers to the forced relocation of many tribal people in the Southeast US, including the Seminole, Choctaw, Creek and Chickasaw, but this tribe was most heavily represented.

A. Cherokee

B. In 1835 a couple hundred Cherokee, none of them elected tribal leaders, attended a meeting at this Georgia town, and twenty signed its namesake treaty ceding lands east of the Mississippi to the U.S.

A. New Echota

C. The trail ended in land that would become this U.S. state where the Cherokee have their modern headquarters in the town of Tahlequah.

A. Oklahoma

4. Time for the Lois McNamara Commemorative Bonus—answer these questions about the lady who's been feeding all of us this weekend FTPE.

A. Lois is a native of this state, home also of Robert LaFollette, who ran for president on the Progressive ticket in 1924.

A. Wisconsin

B. Lois has visited this ancient Inca city 50 miles northwest of Cuzco, rediscovered by Hiram Bingham.

A. Machu Picchu

C. Lois loves plants and the natural world in general and could tell you that this like-minded naturalist founded the Sierra Club.

A. John Muir

5. Stuff about a famous 19th-century novel FSNOP.
 A (10 pts.) What provincial doctor's wife has affairs with the nobleman Rodophe and the student Leon before committing suicide in a French novel?
 A. Madame or Emma Bovary (need two names)
- B. (5 pts.) Who wrote *Madame Bovary*?
 A. Gustave Flaubert
- C. (5 pts.) What was the profession of Emma's husband Charles?
 A. doctor or physician (or acceptable equivalent)
- D. (10 pts.) This pompous apothecary, symbolic of the bourgeois values and judgment abhorrent to Flaubert, receives the Legion of Honor in the novel's last sentence.
 A. Monsieur Homais
6. Name these American Christian churches FTPE.
 A. William Miller is considered the founder of this church, but it was saved after the Great Disappointment by Ellen White; their name comes from their belief in Saturday as the sabbath.
 A. Seventh Day Adventists
- B. Founded in 1872 by Charles Taze Russell, its followers meet in Kingdom Halls.
 A. Jehovah's Witnesses
- C. This group founded by Mary Baker Eddy is known for its ubiquitous reading rooms in large cities.
 A. Christian Science (acc. Christian Scientists or other variation)
7. ID these major figures in the history of Chile (the place, not the food) FTPE.
 A. This son of a Spanish officer of Irish descent declared Chile independent in 1810, though he needed the troops of San Martin to make it true.
 A. Bernardo O'Higgins
- B. Jumping ahead quite a bit, in 1970 this self-styled "Marxist Democrat" was elected Chile's president, much to the chagrin of the US.
 A. Salvador Allende
- C. In 1973 this commander of the army seized power with the help of the CIA and ordered the murder of Allende.
 A. Augusto Pinochet Ugarte
8. Finish these lines by Emily Dickinson FTPE.
 A. "Because I could not stop for death/He did stop for me;/And in the carriage rode but us/And"
 (blank—one word).
 A. "immortality"
- B. "I heard a fly buzz" (blank—three words)
 A. "when I died"
- C. "I like to see it" (blank—three words) (Hint: this is a first line)
 A. "lap the miles"
9. Answer these questions about an isotope of hydrogen FTPE.
 A. Currently feasible fusion reactors would require this isotope of hydrogen with two neutrons, as you may remember from Spiderman 2.
 A. tritium
- B. Reactors might make their own tritium by bombarding this light metal with neutrons.
 A. lithium
- C. Tritium is radioactive; it decays by beta emission to form this atom.
 A. helium-3 (give them a break and take just helium)

10. I'll list three 21st-century movies, and you name the actor common to all three FTPE.

A. Donnie Darko, The Day After Tomorrow, Bubble Boy

A. Jake Gylenhaal

B. Cold Mountain, The Road to Perdition, Alfie

A. Jude Law

C. Jurassic Park III, The Cooler, Seabiscuit

A. William H. Macy

11. Fun stuff about Franz Joseph Haydn FTPE.

A. Haydn spent nearly 30 years in the employ of this Hungarian noble family, primarily Prince Nikolaus.

A. Esterhazy

B. Legend has it that this symphony was written to remind Prince Esterhazy to allow the musicians there overdue vacation; when performed instruments drop out one by one until only two solo violins are left.

A. Farewell Symphony (Symphony 45)

C. This symphony, number 100, features bugles and percussion instruments, leading to its martial sound and nickname.

A. Military Symphony

12. Identify these muckrakers FTPE.

A. Her *History of the Standard Oil Company* exposed many illegal and monopolistic practices.

A. Ida Tarbell

B. This Danish immigrant's photographs of NY slum life in *How the Other Half Lives* caused much outrage.

A. Jacob Riis

C. This dude exposed political machines and rackets in his *The Shame of the Cities*.

A. Lincoln Steffens

13. Identify these Central Asian 'stans from their capitals FFPE and a ten-point bonus for getting all four.

A. Tashkent

A. Uzbekistan

B. Ashkabad

A. Turkmenistan

C. Bishkek

A. Kyrgyzstan

D. Astana

A. Kazakhstan

14. Given a figure from Greek myth, name both his mother and father FFPE.

A. Hermes

A. Zeus and Maia

B. Cronos

A. Uranus and Gaia

C. Orestes

A. Agamemnon and Clytemnestra

15. FTPE, in what organ of the human body would you find each of these structures?

A. the islets of Langerhans

A. pancreas

B. Bowman's capsules

A. kidney

C. Sertoli cells

A. testicle or testis

16. Answer the following about a British novel the question writer will never read FSNOP.
A. (10 pts.) What 1813 novel famously begins, "It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife"?

A. Pride and Prejudice

B. (5 pts.) Who wrote *Pride and Prejudice*?

A. Jane Austen

C. (15 pts.) The single man referred to in the novel's opening line is what man who eventually marries Jane Bennet?

A. Charles Bingley

17. Answer the following about a modern Egyptian leader FSNOP.

A. (10 pts.) This army colonel led the coup that removed King Farouk from power in 1952.

A. Gamel Abdel Nasser

B. (5 pts.) In 1956 Nasser nationalized this critical waterway, leading to armed conflict with Britain, France and Israel.

A. Suez Canal

C. (15 pts.) In 1958 Nasser merged Syria and Egypt into this short-lived attempt at a pan-Arab state.

A. United Arab Republic

18. Stuff about a playwright and her works FTPE.

A. This woman first gained fame with her play *The Children's Hour* and later in life had a memorable feud with Mary McCarthy.

A. Lillian Hellman

B. This 1939 drama by Hellman shows Regina Giddens eventually verbally attack her husband and later watch him die.

A. The Little Foxes

C. Hellman had a lifelong romance with this hardboiled author, the creator of Sam Spade in *The Maltese Falcon*.

A. Dashiell Hammett

19. Stuff about the 1787 Constitutional Convention FTPE.

A. The large-state plan, advocated originally by Madison, was known as this state's plan.

A. Virginia

B. The small-state plan, submitted by William Paterson, was known as this state's plan.

A. New Jersey

C. Though he later became the first Attorney General, this Virginian refused to sign the constitution as a delegate from Virginia.

A. Edmund Randolph

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

A. (30 pts.) Kant and the Problem of Metaphysics (1929)

B. (20 pts.) The Basic Problems of Phenomenology (1927)

C. (10 pts.) Being and Time

A. Martin Heidegger