Tournament 33
Round 14
Tossups

1. David Tabor and Frank Philip Bowden showed how this force was related to asperities. Their analysis differed from the laws for this force determined by Guillaume Amontons (GIE-ahm AH-mohn-tohn). This force has static and kinetic (*) coefficients for when an object is stationary or moving, respectively. The standard equation for this force is F equals mu times N . For an object moving horizontally, it is perpendicular to the normal force. For 10 points, name force that resists the movement of an object in contact with a surface.
ANSWER: friction force
2. Alberta Hunter's 1927 recording of "Beale Street Blues" with Fats Waller relegated this instrument to a secondary role behind the pipe organ. The first widely-known white jazz musician to use this instrument was Marion Harris. Both Joao and Astrud Gilberto used it in public performances of 'The Girl from Ipanema." Though this instrument was prominently used by (*) Ma Rainey in blues music, it became an important feature of jazz when Louis Armstrong introduced its "scat" variety. For 10 points, name this instrument used in "What a Wonderful World" by Louis Armstrong. ANSWER: voice [or singing]

020-13-75-14102
3. Two features of this mountain are the Norton and Holbein Couloirs. One method of ascending this mountain involves climbing through the Yellow Band and the Khumbu Icefall as part of the South Col route. Andrew Waugh was responsible for one name of this mountain, which was first successfully climbed by an expedition led by John Hunt. That expedition started in (*) 1953 and ended when this mountain's peak was reached by Edmund Hillary and Tenzing Norgay. For 10 points, name this mountain, split between China and Nepal, that is the world's tallest.
ANSWER: Mount Everest [or Sagarmatha; or Chomolungma; or Zhumulangma Feng]
023-13-75-14103
4. In one of this man's plays, the protagonist's husband is writing a book on domestic industries of medieval Brabant. In another play by him, the protagonist says "a minority may be right; a majority is always wrong" after the town ostracizes him for revealing the health risks of their (*) baths. He created Thomas Stockmann as well as Nora Helmer, who leaves her husband Torvald. For 10 points, name this Norwegian playwright of An Enemy of the People, Hedda Gabler, and A Doll House. ANSWER: Henrik Ibsen [or Henrik Johan Ibsen]
5. This book was compiled in the aftermath of the Battle of Yamama. As proof of its own divine nature, this book claims that all mankind working together could not produce a similar book. This book contains the Verse of the (*) Throne, an ayah which is part of its second and longest sura. According to tradition, this book was revealed by the archangel Gabriel to the prophet Muhammad. For 10 points, name this primary religious text of Islam.
ANSWER: The Qur'an
6. This leader notoriously allowed the Soviet Union to take control of the Balkans by signing the "percentages agreement." He won the 1953 Nobel Prize in Literature for his History of the English-Speaking Peoples. In one speech, this man declared, "We shall fight on the beaches;" in another, he coined the term (*) "Iron Curtain." This man drafted the Atlantic Charter with Franklin Roosevelt, and, along with Roosevelt and Stalin, made up the Big Three. For 10 points, name this prime minister during World War II.
ANSWER: Winston Leonard Spencer Churchill
7. This character is first described as a "sensible, pious fellow" by a man talking to Mr. Haley. He encourages Cassy to have faith and, as he is dying, is asked "who is Jesus, anyhow?" This character rescues Little Eva from drowning and goes to work for Augustine St. (*) Clare. He forgives Quimbo and Sambo for killing him. This man is beaten to death by overseers working for Simon Legree, with George Shelby arriving too late to buy his freedom. For 10 points, name this title noble slave in a novel by Harriet Beecher Stowe.
ANSWER: Uncle Tom
052-13-75-14107
8. This organelle's mechanism was characterized by Thomas Steitz, who won a Nobel for his work. The signal recognition particle will move this organelle from the cytoplasm to the surface of a membrane. In eukaryotes, these organelles require the Kozak consensus sequence for binding. This organelle contains (*) A, P, and E sites, which serve as holding spaces for transfer RNA during translation. For 10 points, name this organelle that is the site of protein synthesis.
ANSWER: ribosome
048-13-75-14108
9. This country's Communist Party has a militant wing known as the New People's Army. That group formed while this country was led by a president who was overthrown in a 1986 revolution that resulted in Corazon Aquino taking power. That president of this country had a wife with a considerably-sized collection of $(*)$ shoes who was named Imelda. For 10 points, name this Pacific Ocean island country that was ruled for twenty years by Ferdinand Marcos and had its independence fought for by Emilio Aguinaldo.
ANSWER: Republic of the Philippines [or Republika ng Pilipinas]
10. One painting by this artist contains an image of a blue flower vase drawn on a wall next to a slightly open cabinet, as well as three white women and a black servant gathering around a hookah. This artist of the Women of Algiers also depicted a king resting atop a bed that sits upon elephant statues as his slaves are being killed in his canvas $\left(^{*}\right.$ ) Death of Sardanapalus. This man placed himself in a top hat in a painting where the central bare-breasted woman is carrying a tricolor flag. For 10 points, name this artist of Liberty Leading the People.
ANSWER: Eugene Delacroix
11. Math done in this nation proved that only one solution exists for a system of congruences where all moduli are coprime. Its astronomy moved forward after a visit from Matteo Ricci. An inventor from this nation developed a bronze jar which could drop a ball into one of eight "mouths" to determine the direction of an (*) earthquake. Experiments mixing garlic and honey with saltpeter in this place led to prototypical fireworks. For 10 points, name this empire, the first to develop the compass, paper, and gunpowder.
ANSWER: imperial China [or Zhongguo]
12. In 1989, Leonard Bernstein conducted this piece at the Brandenburg Gate to celebrate the fall of the Berlin Wall. This symphony's D-minor scherzo is in its second movement rather than its third, and its fourth movement contains an incongruous Turkish march. In that fourth movement, a voice sings, "Oh friends, not these tones!" and a (*) chorus then sings a Schiller poem about the "daughter of Elysium." For 10 points, name this symphony by Ludwig van Beethoven that features a chorus singing "Ode to Joy."
ANSWER: Ludwig van Beethoven's Ninth Symphony [or Symphony no. 9 in D Minor; or the Choral Symphony; prompt on Ninth Symphony]

080-13-75-14112
13. This writing system's little and big yus glyphs were gradually eliminated. A W-like glyph in this writing system with an added mark in the lower-right represents two "sh" sounds in a row. Preceded in usage by the Glagolitic script, it indicates palatalization with a 'soft sign" and was named for a brother of (*) Methodius who went from the Byzantine empire to proselytize in Old Church Slavonic. For 10 points, name this script used today to write Bulgarian and Russian.
ANSWER: Cyrillic script [or azbuka]
14. Jack Kerouac abandoned the formal requirements of this genre in a variation on it he called "pops." One collection of these works takes its title from a poem in which a monkey seems to need a raincoat. One of these works describes the splash of water as a frog jumps into an old pond. These works are contained in the travelogue The Narrow Road to the Deep North. They generally concern (*) nature, and have a five-syllable first line, a seven-syllable second line, and a five-syllable third line. For 10 points, name these short Japanese poems.
ANSWER: haikus
015-13-75-14114
15. The Inca goddess Pachamama causes these events, which the Japanese god Kashima prevents by fighting a catfish. The Aztecs believe that one of these events will end the present-day age of the Fifth Sun. According to the Norse, the failure of Sigyn to continuously hold a bowl beneath a venom-dripping snake causes these events, which in Greek mythology occur with a slamming of the (*) trident by Poseidon. For 10 points, name this natural disaster often attributed to angry gods, in which a landmass trembles.
ANSWER: earthquakes
16. The victorious commander in this battle set his forces into two columns, one of which was led by Cuthbert Collingwood. Jean Jacques Etienne Lucas focused his men on clearing one location in this battle. This battle saw the forces of Pierre-Charles Villenueve destroyed by the opposing commander, who was hit by a sniper's bullet from the $\left.\mathbf{(}^{*}\right)$ Redoubtable. That commander told his men before this battle that "England expects that every man will do his duty." For 10 points, name this battle in which Napoleon's fleet was defeated and Horatio Nelson killed.
ANSWER: Battle of Trafalgar
17. A. Bartlett Giamatti performed this action on the subject of the Dowd Report. This occurred to Ferguson Jenkins after he was caught with drugs, and it was performed on one owner after he attempted to discredit Dave Winfield. Lefty Williams and (*) Shoeless Joe Jackson were subjected to this action, which was done on the all-time hits leader after he bet on the Cincinnati Reds. For 10 points, name this action that has most notably occurred to Pete Rose and the members of the 1919 Black Sox team. ANSWER: being banned for life from Major League Baseball [or word forms]

192-13-75-14117
18. The van der Waals interactions of one of these compounds was used to derive the Lennard-Jones potential. These compounds can be used to shorten electron configuration notation, and one of these compounds is the second most abundant element in the universe. These compounds have the largest ionization energy for their $\left(^{*}\right)$ period because they have a full outer electron shell. For 10 points, name these elements that include neon, krypton, and helium, which occupy the rightmost column of the periodic table.
ANSWER: noble gas [or inert gas]
048-13-75-14118
19. After signing a $\mathbf{\$ 1 0 0 , 0 0 0}$ bond for this man's release, Horace Greeley lost thousands of subscriptions to his Weekly Tribune. This son-in-law of Zachary Taylor contributed to American victory at the Battle of Buena Vista as the leader of the Mississippi Rifles. His detractors claimed that he was captured wearing women's clothing near (*) Irwinville, Georgia, and he was imprisoned in leg-irons in Fortress Monroe. For 10 points, name this only president of the Confederate States of America. ANSWER: Jefferson Finis Davis

030-13-75-14119
20. This poet claimed that "we'll build in sonnets pretty rooms" in a poem whose five stanzas all end with 'love," and begins, "For God's sake, hold your tongue." He described "dull sublunary lovers' love" in a poem comparing two lovers to the legs of a compass. This poet of "The Canonization" and "A (*) Valediction: Forbidding Mourning" also wrote a series of Holy Sonnets. For 10 points, name this English metaphysical poet who wrote a sonnet beginning, "Death, be not proud."
ANSWER: John Donne
104-13-75-14120
21. One of these occurrences ended at Smithfield when the sitting Lord Mayor of London, William Walworth, committed murder. A French occurrence of this type was led in 1358 by Guillaume Cale. That one of these was called the Jacquerie because of the nickname given to its participants. With the help of the radical preacher John Ball and the mysterious Jack Straw, one of these broke out in 1381 over a new poll tax and was headed by $\left({ }^{*}\right)$ Wat Tyler. For 10 points, name these events in which medieval agricultural laborers took up arms against the government.
ANSWER: peasant revolts [or peasants' revolts; accept equivalent words for "revolt"; prompt on revolts]
22. The chemical weathering of this mineral can yield kaolinite. The two major classes of this major mineral are distinguished by the presence of striations. The continuous branch of Bowen's reaction series contains one major class of this mineral; that branch meets the discontinuous branch at the other major class of this mineral. Those classes of this mineral are (*) plagioclase and orthoclase. For 10 points, name this silicate mineral that makes up most of the Earth's crust. ANSWER: feldspar
23. In this novel, Prior Aylmer and his companion are led into a bog by the misleading directions from a jester named Wamba. The title character of this work saves a Jewish woman being burnt at the stake by killing the Templar Brian de Bois-Guilbert. At the end of this novel, the Black (*) Knight, revealed to be King Richard, takes the throne back from King John, and the title Saxon is happily married to Rowena. For 10 points, name this historical novel by Sir Walter Scott.
ANSWER: Ivanhoe

1. Binet's formula gives a closed form for the terms of this sequence, which begins one, one, two, three. For 10 points each:
[10] Give the name for this sequence, where each further term is the sum of the two before it.
ANSWER: Fibonacci sequence [or Fibonacci series]
[10] The standard definition of the Fibonacci sequence is an example of this type of definition where a term is calculated by way of earlier terms.
ANSWER: recursive [or words forms]
[10] The recursive definition "a sub one" equals three, and "a sub k-plus-one" equals "a sub k" times two describes what kind of sequence?
ANSWER: geometric sequence
174-13-75-14201
2. One painting showing this kind of flower's "Painter" also depicts the artist's friend Paul Gauguin. For 10 points each:
[10] Name this kind of flower depicted in two series, one named for Paris, the other named after the artist's home town of Arles.
ANSWER: sunflowers [or tournesols]
[10] Name this artist of the Sunflowers series, who also painted a self-portrait showing a bandaged ear.
ANSWER: Vincent Willem van Gogh
[10] This van Gogh painting's swirling sky has been theorized to be inspired by a drawing of the Whirlpool Galaxy.
ANSWER: The Starry Night [or De sterrennacht]
3. At the end of this work, the protagonist tells his tutor that they must "cultivate our garden." For 10 points each:
[10] Name this novella, whose title character is taught by Dr. Pangloss that, despite the constant tragedies befalling him, this is the best of all possible worlds.

## ANSWER: Candide

[10] In Lisbon, Candide learns his love Cunégonde has been forced to be the mistress of a man with this position. A man with this position berates Christ for returning to earth in a parable told by Ivan Karamazov.
ANSWER: Grand Inquisitor [prompt on Inquisitor]
[10] Candide was written by this French philosophe.
ANSWER: Voltaire [or François-Marie Arouet]
4. John Reed's Ten Days that Shook the World is about the revolution in this country. For 10 points each: [10] Name this country, whose autocratic government was overthrown in 1917 and by the end of the year had been replaced by the Bolsheviks.
ANSWER: Russian Federation [or Rossiya; or Rossiyskaya Federatsiya]
[10] The Bolsheviks took power in this month of the Russian calendar. They took over from the provisional government that had replaced the tsar in the February Revolution.

## ANSWER: October

[10] This member of the Socialist Revolutionary party was the second and last prime minister of the provisional government.
ANSWER: Aleksandr Fyodorovich Kerensky
121-13-75-14204
5. This man published several works on the potlatch ceremony of the Kwakiutl. For 10 points each:
[10] Name this author of The Mind of Primitive Man.
ANSWER: Franz Boas
[10] Boas taught, among others, Margaret Mead and Ruth Benedict at this university in New York City. ANSWER: Columbia University
[10] Benedict's work The Chrysanthemum and the Sword analyzed the presence of "shame" and "guilt" cultures in this country.
ANSWER: Japan
192-13-75-14205
6. Answer the following about a mythological theme, for 10 points each.
[10] The twins Amphion and Zethus built the walls of this city, which was founded by Cadmus at the site where he sowed dragon's teeth in the ground.
ANSWER: Thebes
[10] This first king of Rome and twin brother of Remus built a wall to protect the city's Palatine Hill.
ANSWER: Romulus
[10] The walls of Asgard are incomplete because Loki seduced and slept with Svadilfari
(SVAH-dil-FAR-ee), one of these animals involved in the building process.
ANSWER: a horse [or a stallion]
020-13-75-14206
7. When propane gas is completely oxidized, it yields water and carbon dioxide in one of these reactions.

For 10 points each:
[10] Name this class of highly exothermic reactions. They are often accompanied by fire.
ANSWER: combustion reactions
[10] The mechanism for the combustion of methane includes a step for the production of one of these compounds. These highly reactive species contain unpaired electrons.
ANSWER: free radicals
[10] Combustion reactions only occur above this temperature for a substance. At this temperature, a substance will form an ignitable gas, and it's typically much lower than the autoignition temperature.
ANSWER: flash point
8. In this poem, "the scepter and the isle" are left to the title character's son. For 10 points each:
[10] Name this dramatic monologue in which the speaker affirms his will "to strive, to seek, to find, and not to yield."
ANSWER: "Ulysses"
[10] The six hundred members of the title group of this other poem "flashed all their sabres bare" as they rode "into the valley of Death."
ANSWER: "The Charge of the Light Brigade"
[10] This poet wrote both "Ulysses" and "The Charge of the Light Brigade."
ANSWER: Alfred, Lord Tennyson
149-13-75-14208
9. Name these powerful female monarchs, for 10 points each.
[10] This Hapsburg empress came to power with the Pragmatic Sanction, reorganized Austria's military, and held on to her throne in the War of the Austrian Succession.
ANSWER: Maria Theresa [or Maria Theresia; prompt on partial answer]
[10] This great patroness of the arts and sciences in her native Sweden closely corresponded with
Descartes, but scandalized her court by converting to Catholicism and deciding to never marry.
ANSWER: Christina [or Kristina]
[10] This grandmother of Charles V united Spain by marrying Ferdinand II of Aragon.
ANSWER: Isabella I of Castile [or Isabella the Catholic; or Isabella la Catolica]
020-13-75-14209
10. Walter Reuther was the last head of this group before it joined an organization led by George Meany. For 10 points each:
[10] Name this union that merged with the AFL in 1955.
ANSWER: CIO [or Congress of Industrial Organizations]
[10] Walter Reuther was a leader of this group, which organized the Flint Sit-Down Strike against General Motors.
ANSWER: UAW [or United Auto Workers; or United Automobile Workers; or International Union, Automobile, Aerospace, and Agricultural Implement Workers of America]
[10] The CIO was begun by this man, the president of the United Mine Workers. He started the group as a branch of the AFL before leaving in 1938.
ANSWER: John Llewellyn Lewis
121-13-75-14210
11. Answer some questions about heat transfer, for 10 points each:
[10] This fast mode of heat transfer occurs when thermal energy moves directly through a solid object, unlike convection.
ANSWER: conduction
[10] If two systems are in thermal equilibrium with a third system, then the two systems must also be in equilibrium with each other, according to what law of thermodynamics?
ANSWER: zeroth law of thermodynamics
[10] This law states that the heat flux density during conduction is proportional to the negative temperature gradient.
ANSWER: Fourier's law of heat conduction
12. Name these movements or time periods of Western classical music, for 10 points each.
[10] The "classical" period was followed by this period, characterized by music that was very spiritual, rooted in nature, or nostalgic.
ANSWER: Romantic period [accept word forms, such as Romanticism]
[10] Maurice Ravel and Claude Debussy were the two main composers of this late 19th and early 20th century movement focusing on evoking an atmosphere, much like the visual art movement of the same name.
ANSWER: Impressionism [accept word forms, such as Impressionistic]
[10] Alban Berg, Anton Webern, and Arnold Schoenberg were the three main composers of this school of music, which heavily experimented with atonality.
ANSWER: Second Viennese school [Zweite Wiener Schule; or Neue Wiener Schule; prompt on Viennese school; prompt on Wiener Schule]
13. One character in this novel spends fifty years engaging in 622 affairs while waiting for the wife of doctor Juvenal Urbino. For 10 points each:
[10] Name this novel in which that man, Florentino Ariza, finally consummates his feelings for Fermina Daza aboard a riverboat with a raised quarantine flag.
ANSWER: Love in the Time of Cholera [or El Amor en los Tiempos del Cólera]
[10] This Colombian magical realist author of Love in the Time of Cholera described Ursula, the matriarch of Macondo's Buendia family, in One Hundred Years of Solitude.
ANSWER: Gabriel Garcia Marquez [prompt on Marquez]
[10] In One Hundred Years of Solitude, these creatures surround the mechanic Mauricio Babilonia.
Nabokov loved these creatures, whose "time" titles a novel about the Mirabal sisters by Julia Alvarez.
ANSWER: yellow butterflies
104-13-75-14213
14. German troops of this type called Fallschirmjager (FALL-scheerm-YAYG-ur) suffered heavy losses while taking Crete. For 10 points each:
[10] Name this type of soldier that could be strategically placed behind enemy lines by jumping out of planes.
ANSWER: paratroopers [accept equivalent answers such as parachute infantry or airborne trrops] [10] After 1943, Germany's 1st Fallschirmjager-Division was in this country, where they fought the Canadians at Ortona and held the ruins of the Monte Cassino Abbey.
ANSWER: Italy [or Italian Republic; or Repubblica Italiana]
[10] Prior to the Battle of Arnhem, this operation devised by Bernard Montgomery occurred. It placed thousands of paratroopers on the border of the Netherlands and Germany but was ultimately unsuccessful. ANSWER: Operation Market Garden
15. In January 2013, members of the Islamist group Ansar Dine (din-EY) claimed to have captured Douentza and Konna in this country. For 10 points each:
[10] Name this West African country, which has seen a loss of central government influence over Tuareg areas in its north since the March 2012 overthrow of president Amadou Toumani Touré.
ANSWER: Republic of Mali [or Republique de Mali]
[10] This other West African Islamist group, which was founded by Mohammed Yusuf in 1991, is believed responsible for killing thousands of Christians in several church massacres in another country. Its name means "Western education is forbidden" in Hausa.
ANSWER: Boko Haram [or People Committed to the Propogation of the Prophet's Teachings and Jihad; or Jama-atu Ahlis Sunnah Ladda'awatih wal-Jihad]
[10] Boko Haram operates in this country, Africa's most populous and top oil exporter, where ethnic conflict between the Hausa, Yoruba, and Ibo previously resulted in the Biafran War.
ANSWER: Federal Republic of Nigeria
019-13-75-14215
16. This thinker used classical examples to illustrate a kind of manly skill called virtu in his Discourses on Livy. For 10 points each:
[10] Name this Florentine Renaissance thinker, who argued that it is better for a ruler to be feared than loved.
ANSWER: Niccolo Machiavelli
[10] While in exile from Florence, Machiavelli wrote this booklet on how the title ruler should exercise power. It praised Cesare Borgia.
ANSWER: The Prince [or Il Principe]
[10] Machiavelli's The Prince argues that truly great princes overcome this aspect of the universe, which they divert like a river. He also used the image of beating this property as if it were a woman.
ANSWER: Fortune [or Fortuna; do not accept any synonyms]
104-13-75-14216
17. Charles the Simple allowed these people to settle the region of Normandy to avoid their raids on his lands. For 10 points each:
[10] Name these medieval Norsemen known for conducting raids.
ANSWER: vikings
[10] Vikings conducted their raids in these speedy vessels whose bows were sometimes shaped like a dragon.
ANSWER: longships [prompt on ships or boats]
[10] The beginning of the Viking Age is sometimes dated to their raid of a monastery on this island off the coast of England.
ANSWER: Lindisfarne
18. You are receiving a spinal tap. Answer some questions about it, for 10 points each:
[10]If done correctly, the needle will be inserted in between two of the lumbar types of these irregularly shaped bones, which make up the spinal column.
ANSWER: vertebrae
[10] Spinal taps can be used for diagnosing varieties of this condition, which is an inflammation of the brain. It should be distinguished from meningitis.

## ANSWER: encephalitis

[10] The clear fluid collected by a spinal tap is called this. It is so named because it is present around the brain and the nerves of the spinal cord.
ANSWER: cerebrospinal fluid [or CSF ]
048-13-75-14218
19. Supposedly, William Inge was inspired to write plays by this play. For 10 points each:
[10] Name this play in which Jim O'Connor breaks the horn off of Laura Wingfield's glass unicorn. ANSWER: The Glass Menagerie
[10] The Glass Menagerie was written by this American who also wrote about Big Daddy's birthday party in Cat on a Hot Tin Roof.
ANSWER: Tennessee Williams [or Tennessee Lanier Williams]
[10] In Cat on a Hot Tin Roof, Big Daddy is dying from this disease, despite getting a clean bill of health from the Ochsner Clinic.
ANSWER: cancer
149-13-75-14219
20. Name these routes to get from the Atlantic to the Pacific Ocean, for 10 points each:
[10] This strait through present-day Chile is between the South American mainland and Tierra del Fuego. ANSWER: Strait of Magellan
[10] This canal was built to allow ships to cross the continents without going as far south as the Strait of Magellan. The land it occupied was returned by the United States in 1999.
ANSWER: Panama Canal
[10] This Mexican isthmus was long proposed as a canal site. Porfirio Díaz's government built the first railroad across it from Veracruz in the east to Salina Cruz, in Oaxaca (wah-HAH-kuh), in the west.
ANSWER: Isthmus of Tehuantepec
121-13-75-14220
21. One author with this name fictionalized his real-life relationship with the courtesan Marie Duplessis in his novel The Lady of the Camellias. For 10 points each:
[10] Give this name, which, when appended with "pere," denotes the author of The Count of Monte Cristo. ANSWER: Alexandre Dumas
[10] Dumas created this character, the protagonist of The Three Musketeers, who gets promoted to lieutenant by Cardinal Richelieu.
ANSWER: d'Artagnan [or Charles Ogier de Batz de Castelmore; or Comte d'Artagnan]
[10] In The Count of Monte Cristo, this villanous prosecutor sentences Edmond Dantes to life in prison and later smothers his illegitimate son Benedetto and stuffing him into a box to be buried.
ANSWER: Gerard de Villefort [or Gerard de Villefort]

