Tournament 15
Round 9

1. In this story, Clyde Dunbar is absent from the main event because his leg is broken. The title event of this story is conducted by the same man who conducts the square dances and the Halloween program, Mr. Summers. One character in this story repeatedly protests 'It wasn't fair!" after her husband draws a slip of paper with a black spot. That character (*), Tessie Hutchinson, is stoned to death as a result of the title event in this story. For 10 points, name this short story by Shirley Jackson. ANSWER: "The Lottery"
2. For an electron, the square of this value is equal to $h$ bar squared times the quantum number associated with this quantity times one plus that quantum number. According to the no-hair theorem, a black hole can be completely characterized by mass, charge, and this quantity. This quantity times angular velocity divided by two will give the (*) rotational kinetic energy. It is equal to angular velocity times moment of inertia. For 10 points, name this rotational counterpart of momentum denoted by a capital L.
ANSWER: angular momentum [accept $\underline{\mathbf{L}}$ before mentioned; accept rotational momentum before mentioned; do not accept or prompt on "momentum"]
3. One leader in this conflict was killed in the second battle of Ramla and was named Stephen II. Another figure in this conflict was named Peter the Hermit. This conflict was chronicled by Robert the Monk. This campaign began after a speech given by Pope Urban II at the Council of Clermont. A key battle in this conflict ended when a $\left(^{*}\right.$ ) Fatimid leader fled a certain holy city. For 10 points, name this military conflict in which Europeans sought to regain control of Jerusalem, which was the original campaign of this type.
ANSWER: First Crusade [prompt on partial answer]
081-10-19-09104
4. The Wagner equation is a four-parameter extension of the Antoine (ANN-twahn) equation used to model this quantity with fitted parameters. When there are multiple substances present, the mole fraction of each substance is multiplied by this quantity for each substance; the sum is equal to this quantity for the total mixture by (*) Raoult's (rah-OOLT'S) Law. When it equals the atmospheric pressure, boiling occurs. For 10 points, name this equilibrium force per area exerted by an evaporated substance over its liquid, which is measured in torr or pascals.
ANSWER: vapor pressure [prompt on pressure]
5. In this novel, Retty Priddle and Izz Huett are both in love with the protagonist's husband. Another character in this novel is Farmer Groby, who employs the protagonist. One character in this novel, Angel Clare, moves to Brazil to restart his life. The title character of this novel kills (*) Alec, the father of her illegitimate child, Sorrow, and her real last name is Durbeyfield. For 10 points, name this novel by Thomas Hardy.
ANSWER: Tess of the d'Urbervilles
6. This leader was put under house arrest in his dacha during failed coup in August of his last year of rule. This man signed the INF Treaty and withdrew his country's troops from Afghanistan. One policy started under this leader involved the use of secret ballots in some elections as part of a restructuring. Another policy opened up some freedom of the press. Those policies started under this man were (*) perestroika and glasnost. For 10 points, name this man replaced in power by Boris Yeltsin who served as the final leader of the USSR before its collapse.
ANSWER: Mikhail Sergeyevich Gorbachev
023-10-19-09107
7. The Bruce Peninsula extends into this body of water, which experienced its namesake "hurricane" in September, 1996. Thunder Bay can be found on its western shore, and it drains into the St. Clair River in its south. Islands in it include the historic Mackinac (MACK-in-AW) Island and (*) Manitoulin Island, which bounds this lake's Georgian Bay and is the largest freshwater island in the world. Connected also to Lake Michigan, this is, for 10 points, what third largest Great Lake, located to the east of Michigan?
ANSWER: Lake Huron [prompt on Georgian Bay until "hurricane" is read]
8. One work of this name, whose first of many versions was created in 1908, featured two geometrical and nearly-identical figures directly carved from a single block of limestone. Another sculpture with this name was removed from the left wing of (*) The Gates Of Hell because it was too joyful for the rest of the work, and depicts Paolo and Francesca da Rimini. For 10 points, give the common name for these sculptures by Constantin Brancusi (Bran-COO-see) and Auguste Rodin, both of which depict an embracing couple.
ANSWER: The Kiss
082-10-19-09109
9. In this symphony's first movement, an ostinato rhythm that sounds like a funeral march is played first by the basses, then spreads throughout the orchestra. In the fourth movement, the cellos and basses interrupt the themes of each previous movement in sequence. It was first conducted by its composer and Michael Umlauf, who told the orchestra to ignore its composer's gestures. Set in the key of $\mathbf{D}$ minor, it is best known for its finale, a setting of (*) Friedrich Schiller's "Ode to Joy." For 10 points, name this last completed symphony by Ludwig van Beethoven.
ANSWER: Beethoven's Symphony No. $\underline{9}$ in D Minor [or "Choral" Symphony; accept just Ninth Symphony after "Beethoven" is read, but prompt before then]

084-10-19-09110
10. During this event, Ambassador Ken Taylor gave six people fake passports in a gambit known as the "Canadian Caper." The USS Nimitz served as headquarters for the unsuccessful Operation Eagle Claw during it. That operation seeking to end this event resulted in the crash of three helicopters. Many Americans displayed yellow ribbons during the (*) 444 day duration of this event, and it ended just after Ronald Reagan assumed the presidency. For 10 points, name this event in which Islamic radicals in Tehran stormed the US embassy.
ANSWER: Iran hostage crisis
11. At one point, this animal becomes a cedar leaf in order to steal light from a greedy chief named Logobola. According to the Haida, he brought salmon and berries to a clam shell to feed the first humans. A Manataka story tells of how his power to conjure up buffalo meat caused embarrassment for (*) Coyote, in one of many mythologies that consider him either a trickster god or a benefactor of humans. For 10 points, name this creature, which is seen in many Native American mythologies, and is a black bird that in European cultures symbolizes death.
ANSWER: Raven [or Chulyen; or Hemaskas; or Guguyni; or Nankil'slas; or Kwekwaxa'we; or Txamsem; or We-Gyet; or Yhel]
12. One formula that equates a pair of these operations is the Cauchy-Riemann equation, and a matrix consisting of functions on which this operation has been performed is called the Jacobian. The (*) gradient of a function is a vector field whose components have partially been subjected to this operation. The local maxima and minima of a function can be determined using the first of this operation's eponymous tests. This operation on x squared yields two x. FTP, name this rate-determining mathematical operation that the Fundamental Theorem of Calculus states is the inverse of the integral.
ANSWER: derivative
081-10-19-09113
13. These structures contain inner and outer transport mechanisms called the TIM and TOM complexes and release cytochrome $\mathbf{c}$ during apoptosis. The majority of the post activation steps of beta oxidation occurs in these membrane bound structures. Like (*) chloroplasts, they have their own DNA and they contain an inner matrix with folds called cristae. In eukaryotes, the Krebs cycle occurs in this structure. For 10 points, name this organelle that generates most of the cell's ATP, earning it the nickname the "powerhouse" of the cell.
ANSWER: mitochondria or mitochondrion
14. In one of this author's plays, a visibly uncomfortable Athenian named Kinesias pleads to Myrrhine for relief, only for her to disappear into the Acropolis. This master of Old Comedy wrote a play in which two characters organize the construction of a city in the sky called Cloud-cuckoo-land. In another of his plays, a chorus of animals chant $\mathbf{( * )}^{*}$ "Brekexexex koax koax" and Dionysus goes to the underworld to judge a contest between Euripides and Aeschylus. For 10 points, name this ancient Greek playwright of Lysistrata, The Birds, and The Frogs.
ANSWER: Aristophanes
15. A group of ten Americans from Idaho were charged with abducting thirty-three children from this country. Pat Robertson alleged that the residents of this country "swore a pact to the devil" two hundred years ago. The Brazilian Army heads a UN stabilization mission in this country which began after (*) Jean-Bertrand Aristide was deposed here in 2004. This country's current President is René Préval, who was nearly challenged by entertainer Wyclef Jean in the 2010 elections. For 10 points, name this Caribbean nation which was ravaged by a 2010 earthquake.
ANSWER: Republic of Haiti
16. After this deity was impregnated by Iasion, she gave birth to the god of wealth Plutus. She was worshiped in Arcadia as a woman with the head of a horse because Poseidon turned into a stallion to rape her. The Eleusinian Mysteries were held in honor of this goddess and her daughter. She gave Triptolemus a winged chariot pulled by snakes to help him teach the world agriculture during her search for her (*) daughter, who was abducted into the underworld by Hades. For 10 points, name this mother of Persephone, the Greek goddess of grain and the harvest.
ANSWER: Demeter
17. One character in this play has a pet name, "Blue Roses," and expresses fear that she'll become an "old maid" after no gentleman callers appear. Another character tries to escape his mother and sister by going to the movies, and calls his mother Amanda an "ugly witch" during a tirade in which he hurls his coat across the room, breaking the title objects. One of those objects, a (*) unicorn, is accidentally broken by Jim while dancing with Laura. For 10 points, name this Tennessee Williams play about the Wingfield family, titled after a fragile group of animal statues.
ANSWER: The Glass Menagerie
18. This empire's fortress of Sacsahuaman was built with precisely-fitted stone blocks carried across large distances without wheeled vehicles. This empire absorbed the Chimu civilization, and its records and messages were kept on elaborate knotted strings called quipus. It reached its height under Huayna Capac, and that ruler's decision to divide this empire between Huascar and (*) Atahualpa led to a civil war that weakened this empire shortly before the arrival of Francisco Pizarro. For 10 points, name this South American empire located in present-day Peru.
ANSWER: Incan Empire
030-10-19-09119
19. The teenager Odin plays this sport in the Othello remake $\boldsymbol{O}$. It is also the sport in which the title lothario stars in John Tucker Must Die, and the one in which a suspended star disguises himself as a woman in Juwanna Mann. Racial conflict in this sport provided the storyline for (*) Glory Road, and this was the sport in which a golden retriever excelled in the first Air Bud movie. For 10 points, identify this sport, also the subject of the Bow Wow vehicle Like Mike and the acclaimed documentary Hoop Dreams.
ANSWER: basketball
019-10-19-09120
20. In one of this artist's paintings, a woman in black sets a plate of fruit on a tablecloth patterned with blue vines. His painting of five nude figures joining hands in a circle can be seen in the background of his Le bonheur de vivre, or The Joy of Life. This artist of The Red Room and The Dance is associated with Georges Rouault and André Derain due to his involvement in a movement named after the French word for (*) "beasts." For 10 points, name this French artist who pioneered Fauvism.
ANSWER: Henri Matisse
21. A pope from this house rode around Rome on a white elephant named Hanno. This house was targeted by the Pazzi Conspiracy, and one of its members founded the Grand Duchy of Tuscany. The popes Clement VII and Leo $X$ hailed from this house, whose rule was attacked by the Bonfire of the Vanities under Savonarola. This banking family rose to power under (*) Cosimo, and patronized the young Michelangelo and Leonardo da Vinci under its leader Lorenzo the Magnificent. For 10 points, name this family that ruled Florence during the Renaissance.
ANSWER: Medici
22. The LINEAR one of these objects showed evidence of spontaneous splitting. They have been shown to have CHON particles. The Kreutz Group of them are (*) sungrazers. These objects are often described using the Whipple model. Long period ones are believed to originate in the Oort Cloud. Their main body is called the nucleus, while the gases and dust make up the coma and tail. For 10 points, name these small icy bodies that have a highly elliptical orbit around the sun, famous examples of which include Hale-Bopp and one named for Halley.
ANSWER: comets
23. This phenomenon's effect on interest rates is named for Mundell and Tobin. The rate of this phenomenon is given by Gordon's Triangle, and its effects are modeled by the "Shoe Leather Cost." The rate at which it occurs is calculated by dividing the annual percentage change in the (*) Consumer Price Index by time. It can cause demand pull or cost push and is inversely related to unemployment by the Philips curve. For 10 points, name this economic phenomenon in which the price of goods rises over time and money becomes devalued.
ANSWER: inflation

1. One novel from this country concerns a group of one hundred and eight outlaws and is titled Water Margin. For 10 points each:
[10] Name this setting of Luo Guanzhong's Romance of the Three Kingdoms and Cao Xueqin's Dream of the Red Chamber.
ANSWER: China
[10] Much of China's literary criticism is focused on this number of "great classical novels." This is also the number of novels in Yukio Mishima's Sea of Fertility series.
ANSWER: four
[10] This Chinese novel concerns the monk Xuanzang's travels. It is sometimes titled Monkey after his companion Sun Wukong.
ANSWER: Journey to the West [ O XiYou Ji]
015-10-19-09201
2. This rebellion was put down by a militia under Benjamin Lincoln. For 10 points each:
[10] Name this early American rebellion that was started by farmers in Massachusetts in an economic depression during the period under the Articles of Confederation.
ANSWER: Shays' Rebellion
[10] This rebellion started up during George Washington's presidency over an excise tax on liquor.
ANSWER: Whiskey Rebellion
[10] Washington put the militia raised to quell the Whiskey Rebellion under the control of this Virginian, who got his nickname from serving in the cavalry during the Revolutionary War.
ANSWER: Henry Lee III [or Light-Horse Harry Lee]
023-10-19-09202
3. It requires a boys' choir for the singing of "Gloria Patri" and contains the hymn "Veni, Creator Spiritus." For 10 points each:
[10] Name this E-flat major symphony that features a musical setting of Faust and takes its common name from the fact that it requires many singers and musicians to perform.
ANSWER: "Symphony of a Thousand" [or Gustav Mahler's Symphony No. $\underline{8}$ in E-flat major]
[10] The "Symphony of a Thousand" is a work of this Austrian composer of the Songs of a Wayfearer, and the "Resurrection" Symphony.
ANSWER: Gustav Mahler
[10] The third movement of Mahler's "Titan" Symphony features a setting of this children's song, which is usually sung in a round and asks "Are you sleeping? Are you sleeping?"
ANSWER: Frere Jacques [or Brother John]
079-10-19-09203
4. A French thinker divided this practice into egoistic, altruistic, anomic, and fatalistic varieties. For 10 points each:
[10] Name this means of death.
ANSWER: suicide
[10] Suicide was written by this French sociologist, who also wrote the _Rules of the Sociological Method_ ANSWER: Emile Durkheim
[10] In this work, Durkheim asserts that primitive societies operated via mechanical solidarity, but the title phenomenon has led to the rise of organic solidarity, which leads to anomie, or the loss of values.
ANSWER: The Division of Labor in Society [or De la Division Du Travail Social]
5. Two members of this group fought each at the 48 BCE Battle of Pharsalus. For 10 points each: [10] Name this Roman political alliance that included Julius Caesar and two other members.
ANSWER: First Triumvirate [prompt on Triumvirate]
[10] At the Battle of Pharsalus, Caesar defeated this other member of the group, who had previously engaged Mithradates VI during the Mithradatic War.
ANSWER: Pompey the Great [or Gnaeus Pompeius Magnus]
[10] This final member of the First Triumvirate was killed in 53 BCE fighting Parthian forces at the Battle of Carrhae.
ANSWER: Marcus Licinius Crassus
064-10-19-09205
6. Images in this poem include an "Unreal City" where "each man fixed his eyes before his feet." For 10 points each:
[10] Name this poem whose first section, "The Burial of the Dead," opens "April is the cruellest month." ANSWER: The Waste Land
[10] The Waste Land was written by this poet of "The Hollow Men" and "The Love Song of J. Alfred Prufrock" whose work inspired the musical Cats.
ANSWER: Thomas Stearns Eliot
[10] The Waste Land was the inspiration for this American poet's The Bridge. He also wrote
"Chaplinesque" and "At Melville's Tomb."
ANSWER: Hart Crane
015-10-19-09206
7. This man painted two versions of The Tower of Babel, and a man trying to catch an eel by the tail and a man trying to block out the sun with a fan are in his Netherlandish Proverbs. For 10 points each:
[10] Name this Dutch painter of The Peasant Dance and The Triumph of Death.
ANSWER: Pieter Bruegel the Elder
[10] In this Bruegel painting, the fallen title figure's legs can be seen coming out of the water next to a ship. He had fallen because his wings melted from flying too close to the sun.
ANSWER: Landscape with the Fall of Icarus
[10] A large group of ice-skating villages can be seen on the right side of this other Bruegel painting. Its title figures are shown on the left returning to town with their pack of dogs.
ANSWER: Hunters in the Snow
030-10-19-09207
8. A fixed version of this simple machine has a mechanical advantage of one. For 10 points each:
[10] Name this simple machine that consists of a rope looped around a wheel, such that pulling down on one end of the rope lifts a load on the other end.
ANSWER: pulley
[10] This device uses two or more pulleys to increase the mechanical advantage. It requires pulling the rope for a longer distance, but with less force, to lift an equivalent load.
ANSWER: block and tackle
[10] This machine consists of two masses connected by a rope draped over an ideally massless pulley. The tension in the rope can be calculated by measuring the acceleration of the heavier mass.
ANSWER: Atwood machine
9. A special type of this compound is known as an ylide. For 10 points each:
[10] Name this kind of compound that has both positive and negative charges.
ANSWER: zwitterion
[10] One example of a zwitterion is this kind of molecule that has $\mathrm{NH}_{3}{ }^{+}$and COOH groups. These building blocks of proteins include glycine and tryptophan.

## ANSWER: amino acids

[10] The point at which an amino acid loses the hydrogen from the COOH group, thus becoming a zwitterion, is known as this point on a titration curve for amino acids.
ANSWER: isoelectric point
10. This architect used his trademark curved concrete shells to construct buildings such as the Kresge Auditorium at MIT and the David S. Ingalls Rink, also known as the "Yale Whale". For 10 points each, [10] Name this Finnish-American architect who also designed the TWA Flight Center at JFK Airport. ANSWER: Eero Saarinen
[10] Saarinen is best known for designing a "Gateway" type of this structure in Saint Louis; Jean Chalgrin designed a notable one in the Champs-Elysees in Paris.
ANSWER: arches
[10] Saarinen built a "tulip" one of these household objects, which featured a single pedestal leg. Gerit Rietveld created a "red and blue" one, and Mies Van Der Rohe created another for the Barcelona Pavillion. ANSWER: chairs
11. These political units were created during consolidation in 1898, and three of them have a different name as the county they are coextensive with. For 10 points each:
[10] Give the collective name for these five subdivisions of New York City, such as Manhattan.
ANSWER: five boroughs of New York City
[10] This is the only borough of New York City to be located on the mainland, except for the Manhattan neighborhood of Marble Hill. Like Queens, the county name is the same.
ANSWER: Bronx
[10] This borough of New York is home to the old Fresh Kills landfill. Also known as the County of Richmond, it is much more suburban than the rest of the city.
ANSWER: Staten Island
082-10-19-09211
12. New Era Sports and Entertainment gave this man over $\$ 100,000$ in cash and gifts while a college athlete, then went public to Yahoo! Sports after failing to sign him when he went pro. For 10 points each: [10] Name this New Orleans Saints running back, who did not actually meet the eligibility requirements for the 2005 Heisman Trophy that he won, then gave back in 2010.
ANSWER: Reginald Alfred "Reggie" Bush
[10] Bush and his family received improper benefits while he was a football player at this university, which fired athletic Mike Garrett after the NCAA slapped heavy sanctions on the program in 2010.
ANSWER: University of Southern California [or USC]
[10] USC's other problems include a contract-interference dispute with this other NFL team, from which USC poached running backs coach Kennedy Pola as it was opening training camp.
ANSWER: Tennessee Titans [or Tennessee Titans]
13. This empire reached its greatest extent under Ashoka. For 10 points each:
[10] Name this ancient Indian empire founded by Chandragupta.
ANSWER: Maurya Empire
[10] Chandragupta conquered much of the territory west of this river, whose namesake river valley was home to a Bronze Age civilization.
ANSWER: Indus River
[10] Chandragupta fought Seleucus I, a leader of this empire. Seleucus was one of the Diadochi (die-AD-oh-key), the successors of Alexander the Great.
ANSWER: Macedonian Empire
024-10-19-09213
14. McBurney's point marks where this organ attaches to the cecum. For 10 points each:
[10] Identify this organ that is often surgically removed in case of inflammation. Currently, its function in the body is unknown.
ANSWER: vermiform appendix [or vermix]
[10] The appendix may also harbor bacteria important for the function of this organ which absorbs water and connects to the anus for excretion.
ANSWER: large intestine [or colon; prompt on "intestine"]
[10] The appendix is an example of this kind of structure that has lost its use through evolution, such as the hind legs of a whale or the wings of flightless birds.
ANSWER: vestigial
020-10-19-09214
15. This region was once ruled by the Bathory clan. For 10 points each:
[10] Name this region that, along with Wallachia, is one of the major historical regions of Romania.
ANSWER: Transylvania [or Ardeal; or Erdely; or Siebenbuergen]
[10] This Transylvanian-born Wallachian voivode was notorious for impaling his enemies.
ANSWER: Vlad the Impaler [or Vlad Tepes; or Vlad III of Wallachia; or Vlad Dracula; prompt on Vlad]
[10] Transylvania fought under John Zapolya in this 1526 battle in Hungary against Suleiman the Magnificent. The Ottoman victory propelled Suleiman's campaign into central Europe.
ANSWER: Battle of Mohacs (MO-hotch)
026-10-19-09215
16. These objects are divided into $\mathrm{C}, \mathrm{S}$, and M types, depending on whether they are carbon-rich, stony, or metallic. For 10 points each:
[10] Name these objects in the solar system, many of which are found in a "belt" between Mars and Jupiter. ANSWER: asteroids
[10] This is the term given to asteroids that occupy the Lagrange points of gravitational stability around a planet, especially Jupiter.
ANSWER: trojans [or trojan asteroids; prompt on Greeks]
[10] The asteroid belt contains these "gaps," which correspond to the locations of Jupiter's orbital resonances.
ANSWER: Kirkwood gaps
17. The first-century CE world was set to tumult when a ship-pilot named Thamus announced that this god was dead. For 10 points each:
[10] Identify this pastoral Greek god, who was half-goat and half-man.
ANSWER: Pan
[10] Pan pursued this nymph to the Ladon River, where she turned into reeds that Pan cut into the first pan-pipes.
ANSWER: Syrinx
[10] Pan then attempted to take on Apollo's lyre-playing in a contest; all of the judges except Midas ruled for Apollo, leading to Midas being given this anatomical oddity as punishment.
ANSWER: donkey's ears [or ass's ears or other equivalents]
019-10-19-09217
18. This ruler's chariot is pulled by two goats which he snacks on repeatedly. For 10 points each:
[10] Identify this Norse thunder god and namesake of the fifth day of the week.
ANSWER: Thor
[10] A thunderbolt called Vajra is the weapon of this Hindu deity, the husband of Sachi and chief of the Vedic gods.
ANSWER: Indra
[10] Ukko is the thunder god of this nation. Its folktales include such objects as a harp called a Kantele and a magical mill called the Sampo.
ANSWER: Finland
015-10-19-09218
19. This author did not achieve much success with his play about a butterfly that flies away from a lovesick cockroach. For 10 points each:
[10] Identify this playwright of Mariana Pineda, Yerma, Blood Wedding, and The House of Bernarda Alba. ANSWER: Federico García Lorca
[10] Lorca is a well-known modern author from this country and died a martyr fighting in its Civil War. Miguel de Unamuno founded a literary movement in this nation.
ANSWER: Kingdom of Spain [or Reino de España]
[10] Lorca wrote a poem lamenting the death of Ignacio Sánchez Mejías, a member of this profession.
ANSWER: bullfighting [accept logical equivalents]
020-10-19-09219
20. Two legless characters in this play, Nagg and Nell, live in garbage cans. For 10 points each:
[10] Name this play about Hamm, who is unable to stand up, and his servant Clov, who is unable to sit down.
ANSWER: Endgame [or Fin de Partie]
[10] Endgame is a work by this Irish playwright who wrote absurdist plays in English and French and created the characters Lucky and Pozzo.
ANSWER: Samuel Barclay Beckett
[10] Lucky and Pozzo appear in this play, in which Vladimir and Estragon spend two acts doing nothing but wait for the title character, who never appears.
ANSWER: Waiting for Godot [or En Attendant Godot]
21. In one poem, this entity "sets a thing significant, the eye had hurried by." For 10 points each: [10] Name this personification, who passes striving children, gazing grain, and the setting sun in a poem where he "kindly stops" for the narrator, who could not stop for him.
ANSWER: Death
[10] "Because I Could Not Stop for Death" is a poem by this "Belle of Amherst," whose poems, largely unpublished in her own lifetime, also include "I'm Nobody! Who are You?" and "I Heard a Fly Buzz When I Died."
ANSWER: Emily Dickinson
[10] In the first stanza of "Because I Could Not Stop for Death," the narrator states that Death's carriage holds only three figures: Death, herself, and this other personification.
ANSWER: Immortality

