

Round 9

First Half

(Tossup 1) **This country was briefly led by Khondaker Mostaq Ahmad after an assassination at the President's house. This modern-day country was invaded, under the guise of defending the Bihari minority, in Operation Searchlight. (*)** Sheikh Mujibur Rahman led this country's independence movement, which was coordinated by the Awami League. For ten points, name this Muslim-majority country that broke away from Pakistan after winning a liberation war that included heavy fighting around Dhaka.

ANSWER: People's Republic of Bangladesh

(Bonus 1) This document was called for by "The Prayer of Twenty Millions." For ten points each,

[Part A] Name this executive order issued by Abraham Lincoln which ended slavery, but only in states actively rebelling against the United States.

ANSWER: Emancipation Proclamation (accept Proclamation 95)

[Part B] Lincoln gained the confidence to issue the Emancipation Proclamation after this tactically inconclusive battle where George McClellan failed to pursue Confederate forces across the Potomac River.

ANSWER: Battle of Antietam (accept Battle of Sharpsburg)

[Part C] Despite being a part of the Confederacy, this Southern city, which was captured after the Battle of Forts Jackson and St. Philip, was exempted from the Emancipation Proclamation.

ANSWER: New Orleans

(Tossup 2) **This composer produced the most well known transcriptions of the nine Beethoven symphonies. This composer contrasted different types of love in his three *Liebesträume* [LEE-bess-TROY-meh]. This composer wrote six piano études based on works by Paganini, including one called "La campanella." This composer's namesake (*) "mania" spread throughout Europe as his popularity grew throughout the 1840s. For ten points, name this composer of the *Transcendental Études* and *Hungarian Rhapsodies*.**

ANSWER: Franz Liszt

(Bonus 2) This artist painted a woman with red hair kissing a man on the neck in one work, although many believe that she is sucking his blood. For ten points each,

[Part A] Name this Norwegian painter whose *Frieze of Life* series includes *Love and Pain*, which is also known as *Vampire*.

ANSWER: Edvard Munch

[Part B] Munch painted a father praying by a dead girl's bed while the rest of the family mourns in this painting. Like *The Sick Child*, this painting depicts the long sickness of Munch's sister Sophie.

ANSWER: Death in the Sickroom (accept Ein Tod)

[Part C] This other Munch painting depicts a man holding his face with his hands while performing the title action. The red sky in this painting's background was inspired by the eruption of Krakatoa.

ANSWER: The Scream (accept Skrik; accept Der Schrei der Natur)

(Tossup 3) **The base of this period lies on top of *Treptichnus pedum* fossil appendages. Abundance of lagerstatte with well-preserved soft parts of fossils makes British Columbia's Burgess Shale an important contributor to the records of this time period. The (*) Ordovician followed this trilobite-dominated period. For ten points, name this first period of the Paleozoic era that witnessed a namesake diversifying "explosion" of life.**

ANSWER: Cambrian period

(Bonus 3) Answer the following about the spread of malaria, for ten points each.

[Part A] The *Anopheles* genus of these insects spread malaria. These flying insects consume blood and are also the carriers of West Nile virus, yellow fever, and Zika virus.

ANSWER: mosquito

[Part B] Malaria is caused by protozoans from this genus. There are 5 types of malaria-causing parasites from this genus, with the most infectious being *falciparum*.

ANSWER: Plasmodium

[Part C] The heterozygous allele for this disease confers resistance to malaria because of how this disease affects red blood cells and causes them to take a namesake curved shape.

ANSWER: sickle cell anemia

(Tossup 4) **In the *Iliad*, the shield of Achilles includes an image of a dance floor that Homer compares to one built by this figure for Ariadne. While in hiding, this man was discovered when King Cocalus asked for his help in threading a string through a (*) seashell. This man pushed his nephew, Perdix, off the Acropolis in a jealous rage over his nephew's skill in invention; shortly after, this man fled to Crete and designed the Labyrinth for King Minos. For ten points, name this man who designed wings for his son, Icarus.**

ANSWER: Daedalus

(Bonus 4) A *hafiz* is someone who has memorized this text, which was composed in the early 7th century. For ten points each,

[Part A] Name this holy text of Islam. This book was revealed to the prophet Muahmmad by Jibreel.

ANSWER: Quran

[Part B] The Quran is divided into 114 of these chapters. Each of these divisions is further divided into *ayat*.

ANSWER: surah (or suwar)

[Part C] This second and longest surah of the Quran includes the Throne Verse, followed by a verse that notes it is up to each person to decide whether to follow Allah.

ANSWER: surat al-Baqara (accept the Cow Sura)

(Tossup 5) **While serving as a colonel, this man received his callsign of CHAOS. This man, who carried a copy of Marcus Aurelius' *Meditations* during his deployments, succeeded David Petraeus as the head of United States Central Command before succeeding Ash (*) Carter in his current post. Kirsten Gillibrand was the only Senator to vote against this man receiving his highest post, a vote that required a waiver due to his recent military service. For ten points, name this former general and current Secretary of Defense.**

ANSWER: James Norman Mattis (accept Jim Mattis; accept Mad Dog Mattis; do not prompt on Mad Dog alone)

(Bonus 5) Though it's often phrased as "better" in common discussions, this work argues that it is safer for a leader to be feared than loved. For ten points each,

[Part A] Name this landmark 16th century work of political philosophy. It was dedicated to Lorenzo de' Medici, the grandson of Lorenzo the Magnificent.

ANSWER: The Prince (accept Il Principe)

[Part B] This Italian author of *Discourses on Livy* wrote *The Prince*.

ANSWER: Niccolo Machiavelli

[Part C] Machiavelli's *Discourses on Livy* discusses this magnum opus of Livy, a history of Rome from its founding to Livy's day.

ANSWER: Ab urbe condita

(Tossup 6) **After hearing Easter celebrations, this character is followed home by a black poodle. This character summons Helen of Troy to take as a wife. This character kills Valentin in a duel, and soon after, Valentin's sister (*) Gretchen drowns the child she has with this character. This character signs a blood pact which makes it so in his last twenty-four years of life he has unconditional control of Mephistopheles in a Goethe [GUR-tah] play. For ten points, name this scholar who legendarily sells his soul to the devil.**

ANSWER: Faust (do not accept Doctor Faustus)

(Bonus 6) This playwright wrote a play about the daughter of Chris Christoperson trying to leave her career as a prostitute, and one about a Pullman porter who becomes the ruler of an island. For ten points each,

[Part A] Name this author of *Anna Christie* and *The Emperor Jones*, whose play *Ah, Wilderness!* is one of his few comedies.

ANSWER: Eugene Gladstone O'Neill

[Part B] O'Neill described a day in the life of the wildly dysfunctional Tyrone family in *Long Day's Journey into Night*. In the play, Mary Tyrone is addicted to this narcotic painkiller extracted from poppies.

ANSWER: morphine (prompt on "dope")

[Part C] In another O'Neill play, *The Iceman Cometh*, "Hickey" Hickman cheers up a group of depressed drunks until they discover that he has committed this crime, which he claims he did to "free" Evelyn from his bad behavior.

ANSWER: murdering his wife (accept murdering Evelyn Hickman; accept clear equivalents like killing his wife; prompt on partial answers like "committing murder")

(Tossup 7) **Two perpetrators of this event used microphones hidden in Chapstick tubes to stay in contact. This event may have been delayed by Bruce Givner, who was observed peeing on a balcony. H.R. Haldeman and John Ehrlichman were imprisoned as a result of this event, whose (*) cover-up involved the Saturday Night Massacre. A break-in headquarters of the Democratic National Committee was the central event of, for ten points, what scandal that brought down the Nixon administration?**

ANSWER: Watergate scandal

(Bonus 7) Answer some questions about early rulers of the British Isles. For ten points each,

[Part A] The rule of this King of Wessex was chronicled by Bishop Asser. He is the only British king to be labeled "the great."

ANSWER: Alfred the Great

[Part B] England was ruled by the Anglo-Saxons until the invasion of this ruler of Normandy who defeated Harold Godwinson at the 1066 Battle of Hastings.

ANSWER: William I (accept William the Conqueror; accept William the Bastard; accept William II of Normandy; prompt on William)

[Part C] This Queen of the Iceni led a 60 AD revolt against the Rome that culminated with her defeat at the Battle of Watling Street.

ANSWER: Boudica (accept Boadicea; accept Boudicea; accept Buddug)

(Tossup 8) **These compounds react with carboxylic acids to form esters in a process named for Fischer. Their secondary types can be oxidized to form ketones and attaching this group to benzene forms phenol. These compounds have a (*) hydroxyl group with the chemical formula “R-O-H.”** Fermentation produces one of these compounds which can be found in wine. For ten points, name this class of compounds including methanol, ethanol, and isopropanol, which is known as its rubbing type.

ANSWER: alcohols

(Bonus 8) These events are hypothesized to be the source of all the heavy elements in the universe, as stars are unable to fuse anything heavier than iron without collapsing. For ten points each,

[Part A] Name these gigantic explosions that occur at the end of a massive star’s life cycle. Almost all of these events are classified into types I and II.

ANSWER: supernova (do not accept or prompt on nova)

[Part B] This supernova remnant in the constellation Taurus was observed going nova in the year 1054, with some cultures referring it to as a “guest star” in the sky.

ANSWER: Crab Nebula (accept Messier 1)

[Part C] A Type 1A supernova occurs when one of these stars exceed the Chandrasekhar limit. When the Sun reaches the end of its lifespan, it will shed its outer layers and become one of these objects.

ANSWER: white dwarf (prompt on dwarf)

Sixty-Second Rounds

The categories are ...

1. Willy Loman
2. African Leaders
3. Chemical Solutions

WILLY LOMAN

Arthur Miller wrote a play about the dismal life of Willy Loman, who eventually uses his car to commit suicide. Name...

(1) The play's title.

ANSWER: **Death of a Salesman**

(2) Willy's elder son, who loses his football scholarship after failing a math class.

ANSWER: **Biff** Loman (prompt on "Loman")

(3) Willy's younger son, who is a serial liar.

ANSWER: **Happy** Loman (accept **Harold** Loman; prompt on "Loman")

(4) Willy's wife, who insists that "attention should be paid" to Willy's life and suicide attempts.

ANSWER: **Linda** Loman (prompt on "Loman")

(5) Willy's dead brother, who frequently appears in Willy's hallucinations talking about his diamond fortune.

ANSWER: Uncle **Ben** Loman (accept **Benjamin** Loman; prompt on "Loman")

(6) Willy's neighbor, whose children's success shames Willy.

ANSWER: **Charley**

AFRICAN LEADERS

Name the former African leader who...

(1) Led the ANC and was the first leader of post-apartheid South Africa.

ANSWER: Nelson Mandela

(2) Libyan dictator who was ousted during its 2011 Civil War.

ANSWER: Muammar Gaddafi (accept Muammar Qaddafi)

(3) Led Egypt for three decades until a 2011 coup.

ANSWER: Hosni Mubarak

(4) Egyptian president who was ousted in Abdel Fattah el-Sisi's 2013 coup.

ANSWER: Mohamed Morsi

(5) Kenyan leader of the KANU whose son is now the current president of Kenya.

ANSWER: Jomo Kenyatta

(6) Flamboyant Congolese dictator who renamed his country Zaire.

ANSWER: Mobutu Sese Seko (Kuku Ngbendu Wa Za Banga)

CHEMICAL SOLUTIONS

Solutions...

(1) Are made up of at least one solute and what other component, in which dissolution takes place?

ANSWER: solvent

(2) Have what quantity, the concentration per liter of solution, often studied?

ANSWER: molarity

(3) Can settle to form a solid in what process, that also leaves a liquid “supernate”?

ANSWER: precipitation (accept word forms)

(4) Are given what name when they use water as a solvent?

ANSWER: aqueous solution

(5) That are made with a weak acid and its conjugate base are classified by what term?

ANSWER: buffer solution (accept buffer system, etc.)

(6) That are ideal can have their vapor pressure calculated with what law?

ANSWER: Raoult's Law

Second Half

(Tossup 9) **This number is the upper bound of a certain concept according to the Abel-Ruffini theorem, which deals with general solutions in radicals to polynomial equations. There are this many elements in the smallest non-cyclic group, named the Klein group. A theorem of (*) Lagrange notes that every natural number can be represented as the sum of this many square numbers. For ten points, give this number, the number of dimensions of a hypercube and the degree of a quartic polynomial.**

ANSWER: 4

(Bonus 9) For ten points each, give the following about modular arithmetic.

[Part A] Most explanations of modular arithmetic explain it in terms of this value, which is found with the quotient when a dividend is divided by a divisor.

ANSWER: remainder

[Part B] The numbers 5, 15, 25, and 35 all have the same remainder when divided by 10; thus, they are said to have this relationship “modulo 10.” This term is also used in geometry to describe shapes with the same size and shape.

ANSWER: congruent modulo 10 (accept word forms of congruency)

[Part C] The set of all possible remainders for a certain divisor - say, 0 through 9, when dividing by 10 - forms this type of special set important to abstract algebra. While a group is a set with one operation and certain properties, these sets have two operations, often addition and multiplication.

ANSWER: ring of the integers modulo 10 (or modulo n)

(Tossup 10) **Frank Bryce is falsely accused of a murder committed by this literary character in Little Hangleton. In a play by Tiffany and Thorne, this son of Merope Gaunt is the father of Delphini. A prophecy about this character predicts that “the one with the power to vanquish” him “will be born as the (*) seventh month dies,” and is made unknowingly by Sybill Trelawney. As a student, this man frames Rubeus Hagrid for opening the Chamber of Secrets, where a horcrux belonging to this Heir of Slytherin later entrances Ginny Weasley. For ten points, name this Dark Lord of the wizarding world who seeks to kill Harry Potter.**

ANSWER: Tom Marvolo Riddle (accept Lord Voldemort before it is read; prompt on “He-Who-Must-Not-Be-Named” or “You-Know-Who;” prompt on “Dark Lord” before it is read)

(Bonus 10) In this novel, the lawyer Mr Carmichael takes Absalom's case pro deo, or, for God. For ten points each,

[Part A] Name this book, in which the Reverend Stephen travels to Johannesburg to find his sister Gertrude and son Absalom. Absalom is accused of murdering Arthur Jarvis in this novel.

ANSWER: Cry, the Beloved Country

[Part B] This is the surname of Stephen, Gertrude, and Absalom in *Cry, the Beloved Country*.

ANSWER: Kumalo

[Part C] This man wrote *Cry, the Beloved Country* as a critique of pre-apartheid South Africa.

ANSWER: Alan Paton

(Tossup 11) **Cells that store this substance also produce leptin to regulate hunger. Heat generating cells storing these molecules are known as its "brown" type, and vitamins D and E are soluble in these compounds. These molecules are also known as triglycerides and they are stored in (*) adipose tissue. They are one of the major macromolecules along with carbs and proteins, and they produce 9 food calories when metabolized. For ten points, name these molecules that are known to cause obesity and come in saturated, unsaturated, and trans types.**

ANSWER: fats (accept triglycerides before it is read; prompt on lipids; prompt on adipose tissue before it is read)

(Bonus 11) This property remains even after an external magnetic field is removed due to hysteresis. For ten points each,

[Part A] Name this type of magnetism that disappears above the Curie temperature. It is exhibited by cobalt and nickel.

ANSWER: ferromagnetism

[Part B] As its name suggests, ferromagnetism is also exhibited in this element, whose most common ore is hematite.

ANSWER: iron (prompt on Fe)

[Part C] This type of magnetism is contrasted with ferromagnetism, as materials with this property expel an applied magnetic field.

ANSWER: diamagnetism

(Tossup 12) **Landmarks on this street include buildings named for Helen Hayes, Al Hirschfeld, and David Belasco. This street's diagonal path led to the distinctive shape of the Flatiron Building along 5th Avenue. Part of this street is nicknamed the "Canyon of (*) Heroes" for its hosting of ticker-tape parades. This street has several pedestrian-only sections, such as through Times Square, where this street is nicknamed "The Great White Way." For ten points, name this street in Manhattan that names the highest level of American theater.**

ANSWER: Broadway (Street)

(Bonus 12) Some place names in the U.S. are just a little bit redundant. For ten points each,

[Part A] The Cuyahoga River, which famously caught on fire in 1969 due to excessive pollution in this northern Ohio city, is named after the Mohawk word for “crooked river.”

ANSWER: Cleveland

[Part B] You can hunt at a federally managed recreation area named Table Mesa in this state, or visit Pichaco Peak, even though both place names are redundant in Spanish.

ANSWER: Arizona

[Part C] This river, which passes through both Reading [redding] and Philadelphia in Pennsylvania, derives its name from a Dutch word meaning “hidden river.”

ANSWER: Schuylkill River [skool-kull]

(Tossup 13) **In 2012, members of this religion established a local worship center at Battambang in Cambodia. One of this religion’s ten official Houses of Worship is in Wilmette, Illinois. The ruling council of this religion, the Universal House of Justice, is based in (*) Haifa and comprised of nine members, as that number is sacred to this faith. This religion grew out of the teachings of the Bab, who held that he was a prophet in the tradition of Muhammad and Jesus. For ten points, name this Middle Eastern religion founded in the mid-19th century.**

ANSWER: Baha’i

(Bonus 13) Give the following about the winged horse Pegasus for ten points each.

[Part A] Pegasus aided this hero in his quest to kill the Chimera.

ANSWER: Bellerophon

[Part B] After slaying the Chimera, Bellerophon flew Pegasus in an attempt to reach Mount Olympus. Zeus prevented Bellerophon’s flight intervened by sending one of these animals to distract Pegasus.

ANSWER: sending a gadfly to sting Pegasus (prompt on partial descriptions that don’t name the insect; prompt on “fly”)

[Part C] In another story, Pegasus created the Pirene, one of these natural features, by kicking the ground near Corinth. Another of these natural features created by Pegasus on Mount Helicon, the Hippocrene, was sacred to the Muses.

ANSWER: spring (accept fountain)

(Tossup 14) **In this painting, a girl in gray offers a red pitcher to the central figure while a young woman with butterflies in her hair curtsies. The background of this painting contains two paintings by Peter Paul Rubens and a reflection of the subject’s parents, a (*) king and queen. In this painting, a mastiff lies next to two dwarves in the Spanish court of Philip IV. For ten points, name this painting of the attendants of the Infanta Margarita, created by Diego Velazquez.**

ANSWER: Las Meninas (accept The Maids of Honor or The Ladies-in-Waiting)

(Bonus 14) In a work by this composer, a pianist sits silently at the piano for the title length of time. For ten points each,

[Part A] Name this composer of 4'33" [four minutes and thirty-three seconds], whose music is the ambient sounds of the listening space, rather than any performed sound.

ANSWER: John Cage

[Part B] Cage's minimalist work is often described by this hyphenated French term, which describes art that pushes the boundaries of acceptable or traditional culture.

ANSWER: avant-garde

[Part C] Another avant-garde piece, Cage's *Imaginary Landscape Number 4*, calls for 12 of these objects to be set to random stations and volumes

ANSWER: radios

(Tossup 15) **In this novel, the protagonist accompanies Etienne and Raoul to Grand Isle, where she is told that she is the only one worth playing piano for by the elderly Mademoiselle Reisz and observes the self-denying motherhood of (*) Adèle Ratignolle.** This novel's protagonist has an affair with Alcée Arobin and flirts with Robert Lebrun, but ultimately leaves them and her husband, Léonce, by purposefully swimming too far into the Gulf of Mexico. For ten points, name this novel about Edna Pontellier's self-discovery, written by Kate Chopin [shoh-PAN].

ANSWER: The Awakening

(Bonus 15) In this play, Hermia is in love with Lysander, Helena is in love with Demetrius, Demetrius is pursuing Hermia, and magic only makes the whole situation worse. For ten points each,

[Part A] Name this play by Shakespeare, in which a group of mortals are enchanted to believe that they have been asleep, and are given a group wedding by Theseus and Hippolyta.

ANSWER: A Midsummer Night's Dream (do not accept "A Midsummer's Night Dream" or similar answers)

[Part B] In *A Midsummer Night's Dream*, Helena falls in love with Lysander because of Puck, a mischievous one of these fantasy creatures, who are ruled by Oberon.

ANSWER: fairy (or fairies)

[Part C] Oberon's wife is this queen of the fairies, who falls in love with Bottom after Puck spreads her eyelids with a love potion in *A Midsummer Night's Dream*.

ANSWER: Titania

(Tossup 16) **This ruler founded the city of Nicopolis near the Ionian Sea to commemorate a naval battle that solidified his power. This man may have exclaimed “give back my legions!” after the Battle of the Teutoburg Forest. Marcus (*)** Agrippa led this man’s forces during the Battle of Actium, a loss for Mark Antony and Cleopatra. Pax Romana began under the rule of, for ten points, what heir of Julius Caesar, the first Emperor of Rome?

ANSWER: Augustus Caesar (accept Gaius Julius Caesar Octavianus)

(Bonus 16) For ten points each, give the following about naval warfare in East Asia.

[Part A] Admiral Yi Sun-Shin designed these Korean warships that repelled Toyotomi Hideyoshi’s naval invasion of Korea in the 1590s. They are considered the first armored ship in the world.

ANSWER: turtle ships (accept Geobukseon)

[Part B] During the Battle of Leyte Gulf, Japanese airmen began to conduct these suicide attacks against U.S. ships. The name for these attacks translates to “divine wind.”

ANSWER: kamikaze attacks

[Part C] The intensity of kamikaze attacks gave this battle the nickname “typhoon of steel.” During this battle, the Japanese lost the battleship *Yamato*.

ANSWER: Battle of Okinawa

Tiebreakers

(Tossup 17) **In this novel, a man in a red sweater beats the protagonist to train him before sending him away with François and Perrault. Hal, Charles, and Mercedes crash through the ice after John (*)** Thornton cuts this novel’s protagonist loose. This novel’s protagonist fights with Spitz and eventually becomes known as a “Ghost Dog” who lives among wolves in the Yukon. For ten points, name this novel by Jack London about a dog named Buck.

ANSWER: The Call of the Wild

(Bonus 17) The only surviving wonder of the ancient world is one of these structures named for Khufu. For ten points each,

[Part A] Name these Egyptian structures which held tombs for pharaohs. The largest surviving of these structures are located in Giza.

ANSWER: Egyptian pyramids

[Part B] The pharaohs of the New Kingdom were chiefly buried in this valley which holds over 60 tombs.

ANSWER: Valley of the Kings (accept Valley of the Gates of the Kings)

[Part C] The Valley of Kings sits across from this city which contained the Karnak Temple Complex. Before the reign of Narmer, this city was the capital of Upper Egypt.

ANSWER: Luxor (accept Thebes)