

Round 1

Tossups

(Tossup 1) This country's air force launched a successful attack on Force Z, leading to the sinking of *Prince of Wales* and *Repulse*, and it commonly used the Zero fighter. This country's empire was known as the Greater East Asia Co-Prosperity Sphere, and it was brought to an end after this country surrendered following the dropping of two American atomic bombs. For the point, name this Asian country once led by Hideki Tojo which attacked Pearl Harbor during World War II.

ANSWER: **Japan**

(Tossup 2) A painting of this scene is illuminated only by a lamp in the top left and by a halo around the central figure. A depiction of this scene is set on a diagonal axis and was created by Tintoretto. In a famous depiction of this scene, Judas clutches a bag of silver and St. John sits next to the central figure. Leonardo Da Vinci painted a version of, for the point, what Biblical scene in which Jesus and his Apostles share a meal?

ANSWER: The **Last Supper** [or **Il Cenacolo**; or L'**Ultima Cena**]

(Tossup 3) The title character of this novel is shot by George Wilson for trying to protect Tom's wife from charges of vehicular manslaughter. In this novel, Jordan Baker attends parties that are hosted in West Egg to attract the attention of Daisy Buchanan, as narrated by Nick Carraway. For the point, name this novel about a lonely, wealthy 1920's New Yorker, written by F. Scott Fitzgerald.

ANSWER: *The* **Great Gatsby**

(Tossup 4) In quantum physics, the Hamiltonian corresponds to a sum of this quantity, which can use units of BTU and ergs. One form of this quantity can be found by multiplying force times distance, while another type of this entity can be found by the formula MGH [*say the letters*]. This quantity comes in "kinetic" and "potential" varieties. For the point, what is this quantity, which can be measured in Newton meters or Joules?

ANSWER: **energy** (accept potential **energy**; accept kinetic **energy**)

(Tossup 5) Liu Hui created a polygon-based method with a 3,072 sided polygon to obtain this number. The first exact formula for this number was created using the Madhava-Leibniz series. Archimedes created an algorithm to approximate this number which is sometimes known as Archimedes' constant. For the point, name this mathematical constant defined as the ratio of a circle's circumference to its diameter, a number approximately equal to 3.14.

ANSWER: **Pi**

(Tossup 6) The main western tributary of this river is the Bahr el Ghazal, which flows through the Sudd wetlands to Lake No. The Damietta and Rosetta distributaries of this river flow into its namesake delta. One tributary of this river has its origin at Lake Tana. This river's summer flooding was ended by the construction of the Aswan High Dam. For the point, name this African river with White and Blue tributaries, the longest in the world

ANSWER: Nile River

(Tossup 7) This man's last words, "No, you certainly can't" were directed to Nellie Connally. The Warren Commission investigated the death of this man, as did the HSCA. Police officer J.D. Tippit was killed by this man's assassin who was himself killed by Jack Ruby. This president was shot while his motorcade drove down Elm Street in Dallas. For the point, name this Democratic president assassinated by Lee Harvey Oswald.

ANSWER: John F. Kennedy (accept JFK)

(Tossup 8) Vesta is the brightest one of these objects visible from Earth, and also one of the largest, together with Pallas and Ceres. The *Hayabusa* mission was the first successful attempt to recover material from one of these objects and return it to earth. For the point, name these floating chunks of rocks in space largely found in their namesake belt between Mars and Jupiter.

ANSWER: Asteroids

(Tossup 9) This Greek god impregnated Gaia to father Erichthonius. Dionysus got this god drunk so that he would free his mother from a throne this god had created. This god created a golden net to capture his wife and Ares in bed together. Hera threw this god off of Olympus because he limped with one foot. This god was married to Aphrodite and had a workshop under a volcano. For the point, name this Greek god of the forge.

ANSWER: Hephaestus (do not accept Vulcan)

(Tossup 10) In a novel by this author, one character meets a Russian "harlequin" after a group of natives attacks his steamboat. In another work, that character helps a former crewman on the Patna find work in Patusan. In one novel by this author, Kurtz writes "Exterminate all the brutes!" and trades ivory along the Congo. For the point, name this Polish-British author who wrote about Marlow in *Lord Jim* and *Heart of Darkness*.

ANSWER: Joseph Conrad [or Jozef Teodor Konrad Korzeniowski]

(Tossup 11) Wilm's tumors are found in this organ, which includes the major and minor calyces and the collecting duct. In this organ, the proximal convoluted tubule is connected to the distal convoluted tubule by the loop of Henle. This organ is made up of individual subunits called nephrons. When this organ fails, patients may go through dialysis. For the point, name this organ that produces urine before it passes it to the bladder.

ANSWER: kidneys

(Tossup 12) This man suffered a rare defeat during the Battle of Aspern-Essling, which he avenged with a later victory over Archduke Charles at the Battle of Wagram. This man was decisively defeated at the Battle of Leipzig during the War of the Sixth Coalition, a conflict which begun after this man's failed invasion of Russia. This man was ultimately defeated by the Duke of Wellington at the Battle of Waterloo. For the point, name this French Emperor and famous conqueror.

ANSWER: **Napoleon** Bonaparte

(Tossup 13) Apollonius claims that Atalanta was not a member of this group as their leader thought that she could cause strife among the men. This group first stopped at an island where all the males had been murdered, Lemnos. The leader of this group overcame a series of challenges from King Aeetes (**pr. eye-EE-teez**) of Colchis and married the sorceress Medea. For the point, name this group led by Jason during his quest for the Golden Fleece.

ANSWER: **Argonauts**

(Tossup 14) During this presidential election year, one candidate was described as being "low-energy". In the aftermath of this election year, one candidate published a book titled *What Happened*. The Mueller probe investigation alleged Russian interference during this election. The winning candidate during this election famously promised to "Make America Great Again". For the point, name this Presidential election in which Hillary Clinton was defeated by Donald Trump.

ANSWER: **2016** Presidential **Elections**

(Tossup 15) An author with this surname wrote the poetry collection *The Hawk in the Rain* and was married to Sylvia Plath. Another poet with this surname wrote about a man on a "rickety stool" playing a "drowsy syncopated tune" on "Lenox Avenue." That poet wrote how the title object may "dry up like a raisin in the sun" in a poem about "a dream deferred." For the point, identify this surname of the Harlem Renaissance author of "The Weary Blues."

ANSWER: **Hughes** [accept Langston and Ted **Hughes**]

(Tossup 16) An event in 1815 involving one of these entities resulted in the following "Year without a Summer" due to its effects on the global climate. Major disruptions to flights in Europe were caused in 2010 by one of these entities, named Eyjafjallajokull (**pr. EYE-uh-FY AHL-uh-YOE-kull**). The letters of Pliny the Younger describe a 79 AD event where one of these entities destroyed Pompeii. For the point, name these entities that come in submarine, shield and cinder-cone forms.

ANSWER: **Volcanoes**

(Tossup 17) This painting won a bronze medal and 200 dollars during its premier at the Art Institute of Chicago. The roof in this painting is steeper than in real life, and this work was inspired by its artist's visit to Eldon, Iowa. The Dibble House appears with a cactus on its porch in this painting. The artist's dentist holds a pitchfork and frowns in, for the point, what Grant Wood painting?

ANSWER: **American Gothic**

(Tossup 18) Materials are known as “hygroscopic” if they absorb this substance. This substance is a poor conductor while in its “deionized” form. Although not a salt, this substance is formed when mixing sodium hydroxide and hydrogen chloride, and this molecule is removed in dehydration reactions. Reagents dissolved in this substance are known as “aqueous.” For the point, what is this molecule with formula H₂O?

ANSWER: **Water** (accept **Dihydrogen Monoxide**; accept **H₂O** before mentioned)

(Tossup 19) In this play, a character is told he will father a line of kings, though he would not be one. Another character in this play is prophesied to be safe until the Great Birnam Wood comes to Dunsinane Hill. The title character of this work delivers the “Tomorrow, and tomorrow, and tomorrow” soliloquy and is killed by Macduff. For the point, name this work by Shakespeare work about a title King of Scotland often referred to as the “Scottish Play”.

ANSWER: **Macbeth** (Accept **The Tragedy of Macbeth**)

(Tossup 20) One of these events led to a major defeat at the Battle of Al-Mansurah and the capture of King Louis IX. The Knight Hospitallers and Knight Templars were prominent organizations during these events. The first of these events was called by Pope Urban II, and the fourth of these events led to the sacking of Constantinople. For the point, name these events, a series of religious wars sanctioned by the Church often targeted at reclaiming the Holy Land.

ANSWER: **Crusades** (Accept **Seventh Crusade** until Knight Hospitallers)

(Tossup 21) This river is spanned by the John James Audubon Bridge. The Old River Control Structure is a floodgate structure which regulates this river’s water flow into the Atchafalaya River. This river’s headwaters are at Lake Itasca. It is joined at Cairo (**pr. KAY-roh**), Illinois by the Ohio River and serves as part of the border between Louisiana and its namesake state. For the point, name this river which flows into the Gulf of Mexico, which together with its tributary, the Missouri, forms the longest river in the USA.

ANSWER: **Mississippi** River

(Tossup 22) Ridolfo Boccherini and Edouard Lalo both wrote notable concertos for this instrument. Shostakovich wrote a concerto for this instrument for his friend Mstislav Rostropovich. This instrument is the only string instrument that must be played seated, and Bach wrote six suites for this instrument. This instrument is larger than a viola and smaller than a bass, for the point, what is this instrument played by Yo-Yo Ma?

ANSWER: violon**cello** (do not accept “viola”; do not accept “violin”)

(Tossup 23) One of these things was invented by Lewis Terman, while another version of this thing was named after David Weschler. These things are studied by the Flynn Effect, and one of these things is the Stanford-Binet test. For the point, name this type of test that uses a quotient to measure a cognitive ability.

ANSWER: **IQ test** (accept **intelligence tests**)

(Tossup 24) This author created a character who marries an Indian princess named Aouda after rescuing her from being burned alive. At the end of one novel by this author, Pierre Aronnax escapes the Maelstrom. Captain Nemo pilots the submarine Nautilus in a novel by this author who also described Phileas Fogg's attempt to circumnavigate the globe. For the point, name this French author of *Around the World in 80 Days* and *20,000 Leagues Under the Sea*.

ANSWER: Jules Verne

(Tossup 25) British spectators travelling to this event were warned of "Anti-British harassment" due to tensions between Britain and the host nation. This event was the most expensive iteration of it to ever be held and the first to use the VAR system. Luka Modric was awarded the Golden Ball at this event. This event's final took place at Luzhniki Stadium and ended in a 4-2 victory for France over Croatia. For the point, name this major soccer tournament which took place in Russia in 2018.

ANSWER: 2018 FIFA World Cup Finals

(Tossup 26) During this conflict, US Marines distinguished themselves at the Battle of Belleau Wood. John Pershing was appointed as Commander-in-Chief of the American Expeditionary Force during this conflict in which the Meuse-Argonne offensive took place. American entry into this conflict was prompted by events such as the sinking of the *Lusitania* and the Zimmerman Telegram. For the point, name this global conflict which Woodrow Wilson led the USA into in April 1917.

ANSWER: World War I

(Tossup 27) If the sine of the largest angle in a triangle is 1, the law of cosines simplifies into this equation. This equation is used to find the length of a vector, and can be proven by drawing squares from the sides of a triangle and comparing their sizes. For the point, name this equation for the side lengths of right triangles, which states that the square of the hypotenuse is equal to the sum of the squares of the sides.

ANSWER: Pythagorean Theorem (accept Pythagoras' Theorem)

(Tossup 28) This person tells Peter to catch a fish and Peter finds two coins in its mouth. The Daughter of Jairus, the young man from Nain, and Lazarus were all raised from the dead by this person. Nativity scenes depict the birth of this person, who addressed his followers in the Sermon on the Mount. According to tradition, this person was born in a manger in Bethlehem. For the point, name this Messiah of the Christian religion.

ANSWER: Jesus Christ (accept either underlined portion)

(Tossup 29) This man was said to have assassinated Joseph Jumonville, and he surrendered during the Battle of Fort Necessity. This man rallied retreating forces during the ambush of the Braddock expedition. In a later conflict, this man was defeated at the Battle of Brandywine Creek, and he famously surprised the Hessians at the Battle of Trenton after crossing the Delaware. For the point, name this Commander-in-Chief of the Continental Army and first President of the United States.

ANSWER: George Washington

(Tossup 30) This work opens with the claim that “this world was being watched keenly and closely by intelligences greater than man’s and yet as mortal as his own”. In this work, an object arrives at Horsell Common and HMS Thunder Child destroys two tripods. This work’s antagonists are ultimately killed by bacteria which they have no resistance to. For the point, name this HG Wells work about a Martian invasion of Earth.

ANSWER: **War of the Worlds**

Tiebreakers

(Tossup 1) This author wrote a story in which Armand Aubigny burns a letter revealing he is half-black after sending away his wife for having a mulatto child. The protagonist of one of this author’s novels listens to Mademoiselle Reisz’s piano recital before returning to Grand Isle, where she met Robert Lebrun. For the point, name this author of “Desiree’s Baby,” who wrote about the drowning of Edna Pontellier in *The Awakening*.

ANSWER: Kate **Chopin** [accept Katherine **O’Flaherty**]