

Replacements

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Tossups

(1) **Karen Wetterhahn was killed by exposure to the dimethyl compound of this element. UV lamps are dangerous to dispose of because they contain this element, which bioaccumulates in fish, especially (*) tuna. Amalgam dental fillings that contain this metal are now banned in Europe, and thankfully, ethanol is now preferred in thermometers to avoid poisoning by this element. For ten points, name this extremely toxic liquid metal with symbol Hg [H-G].**

ANSWER: mercury (accept Hg until it is read)

(2) **This author fictionalized the coronation of Edward VI [sixth] in a novel involving the impoverished Londoner Tom Canty. In another novel by this author, the title boy meets the (*) Duke and Dauphin while trying to escape from his father by rafting with the escaped slave Jim down the Mississippi River. For ten points, name this American author of *The Prince and the Pauper* and *The Adventures of Huckleberry Finn*.**

ANSWER: Mark Twain (accept Samuel Langhorne Clemens)

(3) **In Operation Tempest, this country rose up against Nazi occupiers. The Molotov-Ribbentrop Pact split up this country between the Nazis and Soviets, who pledged to not attack each other. The (*) Auschwitz concentration camp was built by the Nazis in this country, whose September 1, 1939 invasion marked the official beginning of World War II. For ten points, name this European country where the Nazis imprisoned hundreds of thousands of Jews in a ghetto in its capital, Warsaw.**

ANSWER: Poland (accept Republic of Poland; accept Rzeczpospolita Polska)

(4) **Climates labelled ET in the Köppen classification scheme correspond to this biome. Musk oxen and lemmings are native to this biome, where climate change happens twice as fast as anywhere else in the world, amplified by the release of (*) methane clathrates buried underground in its permafrost. Trees can't grow in, for ten points, what biome, located north of the taiga, that comprises Earth's most polar regions?**

ANSWER: tundra

(5) **This character's forces save the title character of an 1819 book from Torquilstone Castle. The use of the title "Locksley" for this character began with Sir Walter Scott's novel (*) *Ivanhoe*; Scott also invented the story of this man splitting an opponent's arrow in an archery contest. Alan-a-Dale, Little John, and Friar Tuck were compatriots of, for ten points, what hero of medieval England who robbed from the rich and gave to the poor?**

ANSWER: Robin Hood (accept either or both underlined names; accept "Robert Locksley" or "Robin of Locksley" before "Locksley" is said; prompt on partial answer)

(6) **While dying of throat cancer, this man provided for his wife, Julia Dent, by writing a bestselling memoir. During a meeting at Wilmer McLean's house, this man laid out (*) generous terms, including allowing men to keep their horses and pistols. The Battle of Appomattox Court House was won by, for ten points, what general who accepted Robert E. Lee's surrender at the end of the Civil War and became the 18th US President?**

ANSWER: Ulysses S. Grant (accept Hiram Ulysses Grant)

(7) **Patients with this disease are used to derive immortalized cell lines like HeLa. This disease is caused by defects in suppressor genes like p53 or oncogenes, often from exposure to DNA mutagens like ultraviolet light. Patients with this disease are (*) "staged" to determine the extent of metastasis and whether the masses are malignant or benign. Chemotherapy and radiation are used to treat, for ten points, what uncontrolled growth of cells that forms tumors?**

ANSWER: cancer (accept tumors until it is read; accept any specific type of cancer)

(8) **This country's 1986 People Power Revolution protested the assassination of Benigno Aquino and led to the ousting of a ruling family that infamously owned a collection of thousands of pairs of shoes. This country's 2022 elections were won by a ticket of two children of former leaders: Vice President Sara (*) Duterte and President Bongbong Marcos. President Manuel Quezon is the namesake of the largest city of, for ten points, what Asian island nation whose capital is Manila?**

ANSWER: Philippines (accept Republic of the Philippines; accept Republika ng Philipinas)

(9) **This author wrote about sharing a room with Fritz Pfeffer and determining that Peter would never be a "kindred spirit" in a series of letters to "Kitty." This resident of the Achterhuis [OCK-ter-hwees], a "Secret (*) Annex", had her work published by her father Otto in 1950, five years after her death. For ten points, name this author of *Diary of a Young Girl* who was abducted from Amsterdam in 1944 after two years of hiding from the Nazis.**

ANSWER: Anne Frank

(10) **This man died at the Bayard House after having borrowed weapons from John Barker Church. This man, who was cared for in his final hours by Dr David Hosack and Nathaniel Pendleton, is believed to have (*) *deloped* in his encounter with the sitting Vice President at Weehawken, New Jersey on July 11, 1804. The former Eliza Schuyler [sky-ler] was the widow of, for ten points, what first Secretary of the Treasury who was mortally shot by Aaron Burr in a duel?**

ANSWER: Alexander Hamilton

Bonuses

(1) After an object crosses the event horizon, tidal forces cause this effect, including both horizontal compression and vertical stretching. For ten points each,

Name this effect. The name of this effect was coined in *A Brief History of Time* and is inspired by the foodstuff that the object would essentially turn into.

ANSWER: spaghettification (accept the noodle effect; accept word forms of spaghetti)

Spaghettification is caused by the immense gravitational pull of these objects. Once something passes within these objects' event horizon, nothing, even light, can escape.

ANSWER: black holes

Black holes are discussed in this English astronomer's *A Brief History of Time*. This physicist died in 2018 after a lengthy battle with ALS.

ANSWER: Stephen Hawking (accept Stephen William Hawking)

(2) A civil war was instigated when this man's forces illegally crossed the Rubicon River; you were supposed to disband your armies before entering Italy. For ten points each,

Name this Roman general who, after the war, became dictator and was assassinated on the Ides of March in 44 CE.

ANSWER: Gaius Julius Caesar (prompt on "Caesar")

When they crossed the Rubicon, Caesar's army was returning from this ancient region, where they had just finished conquering Vercingetorix.

ANSWER: Gaul (accept Gallia; accept Gallic War(s))

While Caesar was in Gaul, Marcus Licinius Crassus died and Pompey the Great consolidated power in Rome. Caesar, Crassus, and Pompey had formed the "first" of these three-person political alliances, which officially broke on Caesar's return.

ANSWER: triumvirates

(3) This book includes Quentin Blake's magnificent illustrations of Bruce Bogtrotter gorging himself on Miss Trunchbull's chocolate cake. For ten points each,

Name this book whose telekinetic title character confides in Miss Honey as she tries to escape from her dysfunctional family.

ANSWER: Matilda

Matilda was written by this fighter pilot and author of children's stories like *Charlie and the Chocolate Factory*.

ANSWER: Roald Dahl

Roald Dahl didn't just write children's literature! Dahl's short story "Lamb to the Slaughter," in which a woman murders her husband with a frozen leg of lamb, was inspired by a suggestion from this author, the creator of James Bond.

ANSWER: Ian Fleming

(4) Many promising gene therapies in current drug pipelines treat blood disorders. For ten points each,

bluebird bio is betting big on a strategy for treating this disease by a therapy that provides a functional copy of the beta-globin gene. Individuals with this disease suffer painful vaso-occlusive crises because their red blood cells are misshapen.

ANSWER: sickle cell disease (accept sickle cell anemia or SCD or SCA)

Vertex Pharmaceuticals is aiming to bring out a sickle cell gene therapy that instead uses this technology to edit DNA inside patients' cells. It's currently getting reviewed by the FDA.

ANSWER: CRISPR-Cas9 (accept clustered regularly interspaced short palindromic repeats)

Clotting proteins, on the other hand, are being repaired by a number of emerging gene therapies against this sex-linked genetic disorder. Queen Victoria gave it to several European royal houses.

ANSWER: hemophilia (accept specific forms of anemia)

(5) Give the following about the first ten amendments to the US Constitution, for ten points each.

This is the collective term for the first ten amendments, including the protections for speech, assembly, and religion found in the first amendment.

ANSWER: Bill of Rights

The Eighth Amendment notes that "Excessive bail shall not be required, nor excessive fines imposed, nor" this specific four-word phrase "inflicted."

ANSWER: cruel and unusual punishment (do not prompt on partial answers)

The Bill of Rights was initially held to apply to the federal government, but this legal process, typically via an application of the 14th amendment's Due Process Clause, applied them to state and local governments as well.

ANSWER: incorporation (accept word forms like incorporate)

(6) Moshe the Beadle's warnings go unheeded in this book, in which Chlomo ultimately dies in the bunk above the narrator, his son. For ten points each,

Name this memoir of the Holocaust.

ANSWER: Night

Night was written by this Holocaust survivor who won the 1986 Nobel Peace Prize for "being a messenger to mankind."

ANSWER: Elie Wiesel (accept Eliezer Wiesel)

In *Night*, Wiesel writes that "Never shall I forget those flames which consumed" *this* "forever." Victims questioning this concept is a major theme of the book.

ANSWER: his faith (accept descriptions of belief in God)

(7) Tanks were first used in this battle, which was meant to force the Germans to stop putting so much effort into capturing Verdun. For ten points each,

Name this 1916 offensive along a French river. Nearly a million people were killed in this battle, which had arguably little impact on the course of the war.

ANSWER: Battle of the Somme

The Battle of the Somme and the Siege of Verdun took place along the western front of this war, whose armistice was came into effect on November 11, 1918.

ANSWER: World War I (accept the Great War)

The Battle of the Somme ended with a German retreat to a fortified line that the Allies named for this German field marshal. Other notable things named for this man include a zeppelin that was destroyed in New Jersey in 1937.

ANSWER: Paul von Hindenburg (accept Hindenburg Line; accept LZ 129 Hindenburg)

(8) Relativity explains why, unlike virtually every other transition metal, this element isn't silver-colored. For ten points each,

Name this precious metal appropriately found just below silver on the periodic table.

ANSWER: gold (or Au)

Relativity causes the atomic orbitals named for this letter to be unusually far from the nucleus in gold. Transition metals lie in the block of the periodic table named for this letter.

ANSWER: d (accept d orbitals or d block)

Relativity also contributes to a well-known effect in which this quantity is smaller than expected for lanthanides. This quantity characteristically decreases from left-to-right across a period due to an increase in effective nuclear charge.

ANSWER: atomic radius (accept atomic diameter; prompt on "size")

(9) Give the following about controversial Presidential advisors, for ten points each.

Karl Rove, Secretary of State Colin Powell, and Vice President Dick Cheney were among the advisors who advised this President to declare war against Iraq in 2003.

ANSWER: George Walker Bush (prompt on "Bush;" prompt on "George Bush;" prompt on "G Bush;" do not accept "George H.W. Bush" or "George Herbert Walker Bush")

This Secretary of State jointly earned a Nobel Peace Prize with Le Duc Tho in 1973 for negotiating a ceasefire in Vietnam, even though the ceasefire didn't last. This man accepted the award, but Tho refused it and several Nobel committee members resigned in disgrace.

ANSWER: Henry Kissinger

This US President refused to fire Sandy Berger, who was slow to report that China had obtained American nuclear weapon designs. This man's own political scandals included the Whitewater real estate controversy.

ANSWER: Bill Clinton (accept William Jefferson Clinton; accept William Jefferson Blythe)

(10) *The New Yorker* claims that none of its published fiction has inspired more of a response as this work; in addition to some normal responses, dozens of people were interested in attending and watching its central event. For ten points each,

Name this 1948 short story in which a small American village gathers for a ritual that Old Man Warner promises will make the corn “heavy soon.” At the end, Tessie Hutchinson is the “winner” of this story’s title event.

ANSWER: The Lottery

“The Lottery” was written by this American master of psychological horror and author of *The Haunting of Hill House*.

ANSWER: Shirley Jackson

This is Tessie Hutchinson’s “prize” for “winning” the lottery.

ANSWER: she’s stoned to death (accept descriptions of people throwing stones at her; prompt on “murdered”, “killed”, “attacked”, etc.)