



Tossup 1: Social Studies — U.S. History

Joe Dacy Coleman was stabbed on May 31, 1943, which was the catalyst for these events. The police department refused to get involved, and the Los Angeles Times placed all the blame on the locals. Eventually, all servicemen were confined to their barracks, but Eleanor Roosevelt was still criticized by many for claiming the happenings were "race riots." Name these Los Angeles riots between servicemen and Mexican-Americans, named after a distinctive style of clothing.

Zoot Suit Riots (*prompt on Mexican-American riots or similar answers*)

Bonus 1: Math — Algebra

Evaluate the following complex expressions, giving your answers in $a + b i$ form when appropriate.

A	One over the quantity $3 + 4 i$.	<u>$3/25 - 4/25 i$</u>
B	The complex modulus of $5 + 2 i$.	<u>$\text{root } 29 + 0 i$</u>
C	The quantity $4 + 2 i$, over the quantity $5 + 7 i$.	<u>$17/37 - 9/37 i$</u>
D	The quantity $4 + 2 i$, times the quantity $5 + 7 i$.	<u>$6 + 38 i$</u>



Tossup 2: Miscellaneous — Entertainment

<p>At one point of this musical, one character sings "I Dreamed a Dream" declaring her dreams dead, and after that sells her hair and goes into prostitution. At another point in this musical, a little girl sings "Castle on a cloud", describing the dreamland she goes to in order to escape from the "Master of the House". Fantine dies in the first act, while Cossette is given into the care of prisoner 24601 who is fleeing from inspector Javert. Identify this opera whose main character is Jean Valjean written by Boublil and Schoenberg and based on a book written by Victor Hugo.</p>	<p><u>Les Miserables</u></p>
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Bonus 2: Literature — Literature

<p>Identify the following non-American, non-British works of Literature.</p>		
<p>A</p>	<p>This is a book of observations and musings recorded by Sei Shōnagon, during her time as a court lady in Heian Japan.</p>	<p><u>The Pillow Book</u> (accept <i>Makura no Sōshi</i>)</p>
<p>B</p>	<p>The thirteenth novel in Zola's twenty-volume series, this work tells of a coalminers' strike in Northern France.</p>	<p><u>Germinal</u></p>
<p>C</p>	<p>This Sartre work sees the historian Roquentin and his wife Anny feel there is no reason for existing.</p>	<p><u>Nausea</u> (accept <i>La Nausée</i>)</p>
<p>D</p>	<p>Primarily a collection of letters from the title character to his friend Wilhelm, this work tells of a young man who falls in love with Charlotte, and eventually kills himself.</p>	<p><u>The Sorrows of Young Werther</u> (<i>Die Leiden des jungen Werther</i>)</p>



Tossup 3: Literature — Literature

<p>One poor character in this play is nicknamed “Waffles” while another is haunted by a railroad switchman who died of Typhoid fever. The drama begins with that character, Astrov, pacing in the garden and ends with a soliloquy by Sofia. The story is thrown into chaos in the third act which begins with Professor Serebryakov proposing that he and Yelena move to Finland and ends with the title character unsuccessfully shooting the Professor. Sonya criticizes the protagonist for living an illusion but persuades him not to commit suicide by morphine in the fourth and final act. Featuring Ivan Voynitsky as the title character, identify this tragicomedy by Anton Chekhov.</p>	<p><u>Uncle Vanya</u></p>
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Bonus 3: Science — Physics

Name the following ancient physicists:		
A	In addition to writing "Poetics" and the "Nicomachean Ethics", this Greek refused to verify his ideas by experiment, leading to conclusions such as men having more teeth than women and that heavier objects fall faster than light ones.	<u>Aristotle</u>
B	This man with a namesake screw is reputed to have run naked through the streets of Syracuse after discovering the principle of buoyancy.	<u>Archimedes of Syracuse</u>
C	A Greek of the fifth century B.C.E., this man was one of the first to attempt to explain natural phenomena without invoking the supernatural. He believed that everything formed from water, determined that moonlight was reflected from the sun, and predicted a solar eclipse.	<u>Thales of Miletus</u>
D	Called "the Laughing Philosopher", this ancient is best known for his theory of atoms, which included the claim that atoms are indestructible.	<u>Democritus</u>



Tossup 4: Science — Biology

<p>ced-3 and ced-4 trigger it in <i>C. elegans</i>, and cancers often interfere with the p53 gene that facilitates it. It occurs when the mitochondrial membranes become porous, activating caspase proteins, which break down the cell's cytoskeleton. Pyknosis occurs, degrading the cell's chromatin, and the cell breaks up into small vesicles that are removed by surrounding cells. Name this cellular process of programmed cell death.</p>	<p>Apoptosis (<i>prompt on <u>cell death</u> or similar</i>)</p>
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Bonus 4: Social Studies — Geography

Identify these European cities.		
A	This capital of Denmark is famous for its Tivoli gardens.	<u>Copenhagen</u>
B	This large city on the Mediterranean is the capital of Spain's Catalonia region.	<u>Barcelona</u>
C	This Italian city on the Ligurian Sea features the Piazza de Ferrari and the Torre della Lanterna.	<u>Genoa</u>
D	This city on the coast of the Baltic Sea is the capital of Latvia.	<u>Riga</u>



Tossup 5: Math — General

<p>This kind of linear transformation preserves the dot product, and this kind of complement of a r-dimensional subspace of R^n has dimension equal to n minus r. The Gram-Schmidt process generates vectors that have length one and are this. In Euclidean geometry, if two lines are this to a third line, those two lines are parallel. Name this concept which is true for any two vectors with a dot product of zero, meaning they have a 90 degree angle between them.</p>	<p>Orthogonality (accept <u>perpendicularity</u>)</p>
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Bonus 5: Fine Arts — Music

<p>Identify these composers who come from countries that you don't necessarily associate with fine music.</p>		
<p>A</p>	<p>This composer of Slavonic Dances spent a notable amount of time in Spillville, Iowa, though he is more commonly associated with his homeland of Bohemia.</p>	<p>Antonín <u>Dvořák</u></p>
<p>B</p>	<p>This composer is best known for his Bachianas Brasileiras, which took the style of Bach and used it to create Nine nationalistic pieces.</p>	<p>Heitor <u>Villa-Lobos</u></p>
<p>C</p>	<p>This Armenian composer of ballets like Happiness and Spartacus is best known for Gayane, which features an adagio used in a Kubrick film.</p>	<p>Aram <u>Khachaturian</u></p>
<p>D</p>	<p>This Finnish composer is best known for his composing of a work which analogs the country's national epic, Finlandia.</p>	<p>Jean <u>Sibelius</u></p>



Tossup 6: Social Studies — Other

<p>Avicenna was the first to formulate one, following the chain of agent-causes to identify the "necessary existent." The most famous one of these was first refuted by Gaunilo, who used the same argument for the "greatest island." Hume argued that an a priori argument of this form is impossible. It states that God is the greatest entity that can be conceived of, that existence is greater than non-existence, and thus, that God must exist. Name this a priori argument for the existence of God, first formulated by Anselm.</p>	<p><u>Ontological</u> argument</p>
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Bonus 6: Miscellaneous — Sports

Answer the following about The Masters Golf Tournament.		
A	The tournament is held each year at this National Golf Club.	<u>Augusta</u> National Golf Club
B	On the day before the tournament's start, this contest is held. Because no winner has ever won the Masters in the same year, many players will comically try to lose.	<u>Par Three</u> Contest
C	This is the most notable prize, which winners must return to the club for storage after one year; they are also owned by every member of the host club.	<u>Green sports Jacket</u> (<i>also accept <u>Green</u> sports <u>Coat</u></i>)
D	Tiger Wood's 1997 win was by far the most dominating. Give either his score-under-par or the number of shots he won by.	<u>18</u> under par or <u>12</u> shots (<i>also accept -18</i>)



Tossup 7: Fine Arts — Visual Art

He was born in the Netherlands and got his start with landscape paintings like Avond, Trees in Moonlight and The Red Mill. Along with Theo Von Doesburg, he founded the De Stijl art movement, and his more famous paintings involve vertical and horizontal lines drawn in different colors, including one with dots going up the middle of these lines. Identify this man who painted various compositions in red, black, blue and yellow, including Broadway Boogie-Woogie.

Piet Mondrian

Bonus 7: Math — Calculus

Evaluate the derivatives of the following functions, at x equals 1.

A	$x^3 - 3x^2 + 5x$.	<u>2</u>
B	x times e to the x .	<u>2e</u>
C	3 to the x .	<u>3 natural log of 3</u>
D	sine of 2 .	<u>0</u>



Tossup 8: Science — Astronomy

<p>Its outer portion is thought to be comprised of expelled members of the Sun's protoplanetary disc, while its inner half is named after Hills and might be remnants from another star. Sedna is located in the latter, and long-period comets are thought to originate from this. Comprised of a large spherical collection of objects starting 20,000 AU away, and a smaller toroidal collection closer, name this large cloud of comets which, along with the Kuiper belt, is a reservoir for trans-Neptunian objects.</p>	<p><u>Opik-Oort</u> cloud</p>
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Bonus 8: Social Studies — World History

<p>Answer these questions related to Otto von Bismarck.</p>		
<p>A</p>	<p>In the early 1860s, Bismarck helped commence the Austrian and Prussian invasion of this country, of the territories of Schleswig and Holstein.</p>	<p><u>Denmark</u></p>
<p>B</p>	<p>Bismarck edited this telegram to engineer the Franco-Prussian War.</p>	<p><u>Ems Dispatch</u></p>
<p>C</p>	<p>Translated as Culture Struggle, this was Bismarck's anti-Catholic movement in the 1870s.</p>	<p><u>Kulturkampf</u></p>
<p>D</p>	<p>Bismarck was chancellor under this German emperor.</p>	<p><u>Wilhelm I</u></p>



Tossup 9: Math — Geometry (Computational: 30 Seconds)

Give the area of a trapezoid whose long base is 12, height is root 3, and smaller interior angles are 30 degrees.	<u>9 root 3</u>
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Bonus 9: Literature — Literature

Given a description, name the American play.	
A	The issues of liquor, cancer, and sex are some of the troubles of Big Daddy, Big Mama, Brick, and Maggie, in this play by Tennessee Williams about the Pollitt family. <u>Cat on a Hot Tin Roof</u>
B	Beneatha wants to go to Medical school and Walter Lee wants to open a liquor store but Mama spends the money to buy a house in Clybourne Park in this Lorraine Hansberry work. A <u>Raisin in the Sun</u>
C	Willie and Lymon are offered \$1,150 for the titular service that often causes Sutter's ghost to come about in this August Wilson play that takes place in Doaker Charles' Pittsburgh home. The <u>Piano Lesson</u>
D	Charlie and Nancy hear a jet fly over the beach they sit on and are confronted by two female sea creatures in this Pulitzer Prize winning drama by Edward Albee. <u>Seascape</u>



Tossup 10: Literature — Mythology

With her immortal husband, she gave birth to the brothers Aniketos and Alexiars, two minor deities who presided over the defense of fortified structures. Prior to her marriage, however, some of her duties included drawing baths for Ares and helping Hera enter her chariot. She did her job, delivering nectar and ambrosia to the gods, up until she was married the Herakles upon his ascension to Olympus. The Greek equivalent of the Roman Juventas, identify this one-time cupbearer to the Olympian gods, supplanted by Ganymede.

Hebe

Bonus 10: Science — Chemistry

Given a molecule, identify its molecular shape according to VSEPR.

A	Ammonia, N H 3.	<u>trigonal pyramidal</u>
B	Hydrogen sulfide, H 2 S.	<u>bent</u> (<i>accept angular</i>)
C	Methane, C H 4.	<u>tetrahedral</u>
D	Boron Trifluoride, B F 3.	<u>trigonal planar</u>



Tossup 11: Literature — Literature

<p>After 1931's Saint Joan of the Stockyards, this writer revisited the story of Joan of Arc twice more, in 1942 and 1952. An influential thinker on the nature of theatre, he is famous for a style of acting called gestus, which is used in epic theatre. One of his plays tells a story similar to the Judgement of Solomon, while another is a musical based on a John Gay work. His school of thought becoming known as "Epic Theater", name this playwright of The Caucasian Chalk Circle, and The Threepenny Opera.</p>	<p>Bertolt <u>Brecht</u></p>
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Bonus 11: Miscellaneous — Interdisciplinary

<p>Answer the following about "The Shot Heard 'Round the World".</p>	
<p>A</p>	<p>The line first appeared in this 1837 poem by Ralph Waldo Emerson.</p> <p><u>Concord Hymn</u></p>
<p>B</p>	<p>The opening stanza containing this line is inscribed on a statue of a minuteman built on the site of the Old North Bridge, sculpted by this man who would later sculpt the seated Lincoln in the Lincoln Memorial.</p> <p>Daniel Chester <u>French</u></p>
<p>C</p>	<p>This phrase is also applied to a game winning home run hit by this New York Giant in the third game of a special 1951 playoff.</p> <p>Robert "Bobby" <u>Thompson</u></p>
<p>D</p>	<p>"The Shot Heard 'Round The World", along with "No More Kings" and "Fireworks" were episodes of this animated series which ran from 1973 to 2001.</p> <p><u>Schoolhouse Rock</u></p>



Tossup 12: Math — Calculus (Computational: 30 Seconds)

Expressing your answer as a fully expanded polynomial, give the derivative of the quantity $7x^2 + 4x + 2$, quantity squared.

$196x^3 + 168x^2 + 88x + 16$

Bonus 12: Social Studies — U.S. History

Name these early influential colonists.

A	This preacher was exiled from Salem, which led to him founding Rhode Island in the 1630s.	Roger <u>Williams</u>
B	This Massachusetts woman was exiled from that colony in 1638 by John Winthrop, mostly for her preaching to both men and women her progressive ideas.	Anne <u>Hutchinson</u>
C	This Dutchman, an early proponent of education, was the last Dutch Director-General of New Netherland, before it was transferred to the English.	Peter <u>Stuyvesant</u>
D	This noted Quaker was famous for his writings, as well as for planning Philadelphia.	William <u>Penn</u>



Tossup 13: Science — Physics

<p>One variant of this is Wigner's friend, where one observer relates his findings to a friend. Devised in 1935 by its namesake physicist, it was based on an observation by Einstein about a semi-exploded gunpowder keg. The ensemble interpretation and many-worlds interpretations seek to clarify it, and this thought experiment was originally proposed to illustrate difficulties with the Copenhagen interpretation of quantum mechanics. Name this thought experiment in which an animal is both alive and dead.</p>	<p><u>Schrodinger's cat</u></p>
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Bonus 13: Math — General

Name these geometric formulas named after mathematicians.		
A	This theorem is equivalent to the law of cosines for right triangles.	<u>Pythagorean theorem</u>
B	This formula gives the area of a triangle based on its semiperimeter and its three side lengths.	<u>Hero's formula</u> (accept <i>Heron's formula</i>)
C	This formula gives the area of a cyclic quadrilateral based on its semiperimeter and its four side lengths.	<u>Brahmagupta's formula</u>
D	This "centroid" theorem states that the volume of a solid of revolution is equal to its area times the distance its centroid is revolved.	<u>Pappus's (centroid) theorem</u>



Tossup 14: Miscellaneous — Interdisciplinary

<p>This fictional person is the subject of an iconic 1954 hit written by Pat Ballard and recorded by The Chordettes. In the novel Logan's Run, it refers to the special policemen who track down runners avoiding their death sentence. In Terry Pratchett's Discworld, he knocks people over the head with a sack. Michael Dorn played the role in the final two The Santa Clause installments, and Thomas Hayden Church played this alter identity of Flint Marko in Spiderman 3. Identify this common name; best known as a folk character who helps children on their way to dreamland.</p>	<p>The <u>Sandman</u> (accept <i>Mister Sandman</i>)</p>
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Bonus 14: Literature — Literature

Identify the following regarding Golden Age Latin Literature.		
A	This writer is responsible for a monumental history of Rome, the Ab Urbe Condita.	<u>Livy</u> (accept <i>Titus <u>Livius</u></i>)
B	This man wrote <i>Ars Amatoria</i> as well as a collection of mythological stories, <i>The Metamorphoses</i> .	Publius <u>Ovidius Naso</u>
C	This man wrote some pretty dirty poems in addition to his love poems to an anonymous girl, Lesbia.	Gaius Valerius <u>Catullus</u>
D	This poet is famous for writing Odes, including one where he came up with the phrase "Carpe Diem."	<u>Horace</u> (accept <i>Quintus Horatius <u>Flaccus</u></i>)



Tossup 15: Social Studies — Geography

<p>This state is home to many oddities, from America's largest meteor crater, to the original London Bridge, to the legendary Lost Dutchman's Mine, supposedly located in the Superstition Mountains. The southwestern most of the states comprising the Four Corners, it contains Saguaro National Park, as well as a portion of the Colorado River. Name this state, which is represented in the United States Senate by Jon Kyl and John McCain.</p>	<p><u>Arizona</u></p>
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Bonus 15: Science — Biology

<p>Identify these terms related to sex determination.</p>		
A	<p>In humans with more than one X chromosome, all but one are deactivated via Lyonization, forming this inactive bundle of DNA.</p>	<p><u>Barr</u> body</p>
B	<p>Lyonization usually occurs in females, but some males have an XXY genotype, called this syndrome.</p>	<p><u>Klinefelter's</u> syndrome</p>
C	<p>On the other hand, some females don't exhibit Lyonization, because they have only a single X chromosome, called this syndrome.</p>	<p><u>Turner</u> syndrome</p>
D	<p>Because X chromosomes in cats determine fur color, the random alternation between disabled chromosomes causes this speckled coloration in female cats.</p>	<p><u>Calico</u> (<i>accept tortoiseshell</i>)</p>



Tossup 16: Math — Algebra (Computational: 30 Seconds)

Solve the following system of equations: $5x + 3y = 17$ and $8x - 7y = -20$.

x = 1 and y = 4 (accept (1,4))

Bonus 16: Fine Arts — Visual Art

Identify the following French painters.

A	This man painted a boy with two pistols and a woman waving the French Tri-color and in another painting, Massacare at Chios, ailing Greeks are about to be massacred by Turks.	Eugene <u>Delacroix</u>
B	This Fauvist painted the Green Stripe; other paintings of his include the Red Room and the Joy of Life.	Henri <u>Matisse</u>
C	This artist's most notable work features a pink slipper flying off a woman's foot towards a statue in The Swing.	Jean-Honoré <u>Fragonard</u>
D	Lesser known works by this man include the Burial at Ornans and The Artist's Studio, however his best known work is The Stonebreakers.	Gustav <u>Courbet</u>



Tossup 17: Literature — Literature

<p>It opens with four women stopping Theseus on his way into the city of Athens. The women lament that their husbands have not been buried, leading Theseus to march on Thebes. After finding the remains of the fallen men, Theseus finds two wounded enemy soldiers whose wounds he heals, afterward sending them to a prison tower. There, these two men notice Emelye through a window, and fall in love with her. These two men, Arcite and Palamon eventually go on to fight in a great tournament for her hand. Seeing Palamon eventually victorious, identify this, the first told of Chaucer's Canterbury Tales.</p>	<p>The <u>Knight's Tale</u></p>
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Bonus 17: Math — Other

<p>Give the probabilities of the following draws from a shuffled standard 52-card deck.</p>		
A	You draw two spades, without replacement.	<u>1/17</u>
B	You draw two black cards, without replacement.	<u>25/102</u>
C	You draw a red card followed by a black card, without replacement.	<u>13/51</u>
D	You draw three cards without replacement, and they form a three-of-a-kind.	<u>1/425</u>



Tossup 18: Science — Chemistry

It can be defined as the heat-integral of one over temperature, as a function of heat, so multiplying it by temperature yields the non-free change in heat subtracted out of Gibbs' free energy. Statistically, it is Boltzmann's constant times the natural log of the number of microstates of the system. Symbolized capital S, and informally described as the "disorder" of a system, identify this quantity which increases, by the Second Law of Thermodynamics.

Entropy

Bonus 18: Social Studies — Current Events

Identify these members of President Barack Obama's cabinet.

A	The only member of the cabinet left from the previous administration is this man, the Secretary of Defense.	Robert Michael <u>Gates</u>
B	This former president of New York's Federal Reserve Bank is the new Secretary of the Treasury.	Timothy Franz <u>Geithner</u>
C	The former CEO of Chicago Public Schools, this man is now the Secretary of Education.	Arne <u>Duncan</u>
D	Michael Chertoff preceded this former Arizona governor as Secretary of Homeland Security.	Janet Ann <u>Napolitano</u>



Tossup 19: Fine Arts — Music

<p>The composer of this work thought that it undermined his reputation as a serious composer, and as a result only allowed the thirteenth movement to be published before his death. That movement features a cello reaching into a very high range, so high in fact that it is sometimes mistaken as a violin. Another movement, the first of the piece, shows a titular creature marching around the town, and ends with a loud fortissimo from all the instruments that played in the movement. Identify this symphony with acts like Hens and Roosters, Kangaroo, The Swan, and the Royal march of the Lion, a work of Camille Saint-Saens.</p>	<p><u>The Carnival of the Animals</u> <i>(accept Le <u>Carnaval des Animaux</u>)</i></p>
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Bonus 19: Science — Astronomy

Identify these small but notable things in our solar system.		
A	The largest dwarf planet, discovered in 2005, this body has a moon named Dysnomia.	<u>Eris</u>
B	The only dwarf planet in the asteroid belt, it contains a third of the asteroid belt's mass, and was discovered in 1801.	<u>Ceres</u>
C	A possible dwarf planet, this body discovered in 2003 is the first observed member of the Oort cloud.	<u>Sedna</u>
D	Formerly a planet, this dwarf planet has three moons, including Charon.	<u>Pluto</u>



Tossup 20: Social Studies — World History

<p>Originally a cupbearer to King Ur-Zababa of Kish, he then became a gardener, which gave him access to a corps of workmen who would become his first soldiers. After taking the crown from Ur-Zababa, he soon attacked Uruk, which was ruled by Lugal-Zage-Si. Taking Uruk, he dismantled the city's famous walls, and became one of the first rulers to govern a multi-ethnic state. Famous for his conquest of much of Mesopotamia in the 24th and 23rd centuries BCE, identify this Emperor who founded the Akkadian Empire.</p>	<p>Sargon I (accept <u>Sargon the Great</u> or <u>Sargon of Akkad</u>)</p>
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Bonus 20: Literature — Mythology

<p>Identify the following about non-Greco-Roman Mythology.</p>		
<p>A</p>	<p>This character from Hindu mythology saved his consort Sita from the Demon King Ravana with a little help from Hanuman.</p>	<p>Rama (accept <u>Ramachandra</u>)</p>
<p>B</p>	<p>Appearing in the Enûma Elish, this Babylonian goddess gives birth to the first generation of gods, then declares war on them, eventually being split in two by Marduk.</p>	<p>Tiamat</p>
<p>C</p>	<p>This hairy friend of Gilgamesh is struck ill by the gods after helping Gilgamesh kill the Bull of Heaven.</p>	<p>Enkidu</p>
<p>D</p>	<p>This most important Shinto deity was born of Izanagi and stopped a rampaging Susanoo by hiding in a cave.</p>	<p>Amaterasu</p>



Tossup A: Math — Calculus (Computational: 30 Seconds)

Find the volume of the solid generated when $y = \sin x$ is rotated about the x axis, from 0 to π .

$\pi^2 / 2$

Bonus A: Social Studies — U.S. History

Identify these American generals who served in World War II.

A	As the commander of the US First Army, this man served with Bernard Montgomery in developing a plan for attacking Omaha Beach.	Omar <u>Bradley</u>
B	This general was reprimanded for slapping a soldier in 1943, but his battlefield successes included breaking through German lines near Bastogne while commanding the Third Army; he would die in an auto accident after the war.	George Smith <u>Patton, Jr.</u>
C	Chief of Staff of the Army during the war, he garnered more fame for helping develop ways to rebuild Western Europe after the war.	George Catlett <u>Marshall</u>
D	Erwin Rommel soundly defeated this man at Kasserine Pass in North Africa, not too long after this man played an important role in Operation Torch.	Lloyd <u>Fredendall</u>



Tossup B: Science — Physics

<p>The feature that causes this effect is due to the spin-statistics theorem and the Pauli exclusion principle, and its strength changes in the Barkhausen effect. Objects with this property are subject to quenching when eddy currents become too high, and their ion alignment takes place below the Curie temperature. This effect can be induced by applying an external field, a process known as hysteresis, which causes dipoles to align, creating persistent domains. Name this property that can be attractive or repulsive, exhibited by nickel, cobalt, and its namesake iron.</p>	<p><u>ferromagnetism</u> (<i>prompt on <u>magnetism</u>; accept word forms</i>)</p>
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Bonus B: Fine Arts — Visual Art

<p>Answer these questions related to Daniel Burnham and the 1893 Chicago World's Fair.</p>		
A	Burnham enlisted this man, the designer of Central Park, to do the landscaping for the fair.	Frederick Law <u>Olmstead</u>
B	This man, Burnham's partner, helped with the initial designs for the fair, but he died in 1891.	John Wellborn <u>Root</u>
C	This designer of the Wainwright Building in St. Louis worked under Burnham for the fair; a leader of the Chicago school, he is known for saying, "Form follows function."	Louis Henri <u>Sullivan</u>
D	One of the lesser known architects of the fair, this man designed New York Penn Station and the Boston Public Library.	Charles Follen <u>McKim</u>



Tossup C: Literature — Literature

<p>He wrote under the pseudonym Karma Nirvami for his first work <i>Serpent and Lily</i>. The main character in his 33,333 line epic poem travels to Antarctica and dies by iceberg in <i>The Odyssey: A Modern Sequel</i>. He sent the Vatican a reply "I lodge my appeal at your tribunal, Lord," after they banned one of his books. Name this author of the novels <i>Freedom or Death</i>, <i>Zorba the Greek</i>, and <i>The Last Temptation of Christ</i>.</p>	<p><u>Nikos Kazantzakis</u></p>
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Bonus C: Science — Biology

<p>Identify these cell organelles from a description.</p>		
<p>A</p>	<p>This membranous organelle receives molecules from the endoplasmic reticulum and completes assembling them, and sends them to their correct destinations.</p>	<p><u>Golgi apparatus</u></p>
<p>B</p>	<p>Photosynthesis occurs in these organelles found only in plant cells.</p>	<p><u>Chloroplast</u></p>
<p>C</p>	<p>These sacs are used to transport any molecule within the cell or between cells. Plant cells usually have a large one in the center.</p>	<p><u>Vacuole</u></p>
<p>D</p>	<p>These sacs are filled with enzymes that digest large molecules.</p>	<p><u>Lysosome</u></p>