



Tossup 1: Math — Other (Computational: 30 Seconds)

You draw a hand of three cards from a standard 52-card deck. What is the probability that all three cards have the same suit?	<u>11/850</u>
---	---------------

Bonus 1: Literature — Literature

Identify the following about French Nobel Laureates in Literature.	
A	This man, known for <i>The Empty Enclaves</i> and <i>Revolt of the Flowers</i> , was awarded the first Nobel Prize in Literature in 1901. René-François-Armand "Sully" Prudhomme
B	Actually Algerian-born, this author penned <i>The Plague</i> as well as <i>The Stranger</i> . Albert Camus (<i>kah-MOO</i>)
C	This existentialist author of <i>Nausea</i> and <i>No Exit</i> declined the Prize in 1964. Jean-Paul Sartre
D	This author of <i>Le Procès-Verbal</i> , <i>Désert</i> , and <i>Onitsha</i> was awarded the most recent prize in December of 2008. Jean-Marie Gustave (J.M.G.) Le Clézio



Tossup 2: Science — Earth Science

Entities within it include Kelud, Newberry, and Mazama, and the Alpide Belt is the most comparable to it. Created by the subduction of the Cocos and Juan de Fuca plates in the Americas, it stretches from Kamchatka to New Zealand. Seeing more seismic activity than any other area of the world, name this string of volcanoes around the Pacific.	<u>Ring of Fire</u>
--	----------------------------

Bonus 2: Social Studies — U.S. History

Backdoor deals and shady practices are nothing new in United States history. Answer the following about those dumb enough to get caught.		
A	Orville Babcock was indicted for his connection to it, an attempt by distillers to defraud the government of revenue which included bribery of Internal Revenue officials.	<u>Whiskey Ring</u>
B	This Girondist incurred the wrath of George Washington after the authorization and dispatch of the Little Sarah, which followed a promise that his commissions would leave American waters.	Edmond Charles "Citizen" <u>Genet</u> (<i>zhen-AY</i>)
C	This two-word term was applied by Jacksonians to Henry Clay's use of his position as Speaker of the House to swing the 1824 presidency in favor of John Quincy Adams, who made Clay Secretary of State.	<u>Corrupt Bargain</u>
D	In Fletcher v. Peck, the Supreme Court ruled that the legislature of this state could not rescind an act by which bribed representatives in this state gave the green light to what became known as the Yazoo land fraud.	<u>Georgia</u>



Tossup 3: Literature — Mythology

<p>His travels eventually take him to a ferryman, who is hanging out with some stone giants. He kills the stone giants, and then crosses the Waters of Death to meet with Utnapishtim and his wife, the only humans to have survived the great flood. His further adventures find him in possession of a plant that restores youth, which a serpent steals. He rejects the romantic advancements of Ishtar, kills the Bull of the Heavens, and fights against Humbaba. A great friend of Enkidu, identify this character from an eponymous Sumerian epic poem.</p>	<p>Epic of <u>Gilgamesh</u></p>
--	--

Bonus 3: Miscellaneous — Interdisciplinary

<p>2008's installment of the Indiana Jones franchise featured a visit by Dr. Jones to the mysterious Nazca Lines in Peru. Answer the following questions relating to Nazca.</p>		
A	The Nazca Desert, where the lines are located, is situated just to the north of this larger and more famous South American desert.	<u>Atacama Desert</u>
B	Name the capital of Peru.	<u>Lima</u>
C	In the face of scandal, Peru's 45th President, Alberto Fujimori, fled to this Asian nation in 2000.	<u>Japan</u>
D	The tectonic plate of the same name is located directly north of this tectonic plate.	<u>Antarctic</u>



Tossup 4: Social Studies — U.S. History

Founded in Michigan, 10 years after it was created it morphed into the National Union Party, but four years later it returned to its original form. Initially similar to the Whigs, one of its more vocal members actually ran against it in 1912, when Teddy Roosevelt ran for the Bull Moose Party. Its first major victory came in 1860, when Abraham Lincoln won the presidency. Name this party often associated with big business that lost the presidential election in 2008.	<u>Republican Party</u>
--	--------------------------------

Bonus 4: Math — General

Name the following polyhedra.		
A	This is the name for a regular triangular pyramid, where all sides are equal.	<u>Tetrahedron</u>
B	This regular eight faced figure has 12 edges, and is sometimes used as an 8 sided die.	<u>Octahedron</u>
C	This regular figure has 20 equilateral triangular sides.	<u>Icosahedron</u>
D	All these figures are this special category of polyhedra, where each face is an equilateral triangle.	<u>Deltahedron</u>



Tossup 5: Science — Biology

<p>Pangeneses was a mechanism used to explain this failed theory, which was notably contested by August Weismann. It explained the idea of "use and disuse" -- that a species loses unused traits and gains useful ones. Also called soft inheritance, a common example of this theory is that giraffes gained longer necks because each generation stretched its neck out farther to reach high trees. Name this early theory of evolution named after a French biologist.</p>	<p><u>Lamarckian evolution</u> (accept <u>Lamarckism</u>)</p>
---	---

Bonus 5: Literature — Literature

<p>Some priests are men of God, while others are men of gold. Identify the following religious figures from literature both good and bad.</p>	
<p>A</p>	<p>In Graham Greene's <i>The Power and the Glory</i> this unnamed character is plagued by both his personal vices and his duty to serve God.</p> <p><u>Whiskey Priest</u></p>
<p>B</p>	<p>In a Dumas work, he orders the Comtesse de la Fère to steal two diamond studs from the Duke of Buckingham in order to get Queen Anne sent back to France.</p> <p>Cardinal-Duke de <u>Richelieu</u></p>
<p>C</p>	<p>This archdeacon took up the dark arts of necromancy and alchemy, and wounded Grignoire with a dagger out of jealousy. He also goes after a gypsy.</p> <p>Claude <u>Frollo</u></p>
<p>D</p>	<p>Orgon refuses to believe that this hypocrite tried to seduce his wife, and even gives him all of his property, but ends up having him arrested.</p> <p><u>Tartuffe</u></p>



Tossup 6: Miscellaneous — Technology

<p>It was thought up in 1950 in a paper titled "Computing Machinery and Intelligence", and further debate on it began when Joseph Weizenbaum's ELIZA supposedly passed it. In it, an outside mediator is allowed to ask written questions, which both subjects respond to, without any direct interaction. The 'T' in CAPTCHA, the challenge-response test you might see when you log into some websites, identify this evaluation of a machine's ability to demonstrate human-like intelligence.</p>	<p><u>Turing test</u></p>
---	----------------------------------

Bonus 6: Science — Physics

<p>Identify the following terms from optics:</p>		
<p>A</p>	<p>These objects can split a beam of white light into its constituent colors, since each color travels through these at a different speed.</p>	<p><u>prism</u></p>
<p>B</p>	<p>This law of optics states that propagating wavefronts are themselves composed of smaller wavefronts. It is named for a Dutch physicist and is useful in understanding diffraction.</p>	<p><u>Huygens' principle or Huygens-Fresnel</u> (<i>fruh NEHL</i>) <u>principle</u></p>
<p>C</p>	<p>This technique for recording images uses two lasers, the interference between which produces a fringe pattern on film that stores the image.</p>	<p><u>holography</u> (<i>accept <u>holograms</u> and other word forms</i>)</p>
<p>D</p>	<p>While the previous three parts all are interpreted with the wave properties of light, light can also be treated as a stream of these particles.</p>	<p><u>photons</u></p>



Tossup 7: Literature — Literature

<p>In one of this author's short stories, Aunt Rachel tells Cue that he has the freedom sickness and tells him how to find the underground road. Besides "Freedom's a Hard-Bought Thing" he also wrote another story in which, a famous politician defends Jabez Stone in a trial presided over by Judge Hathorne in which the Mr. Scratch tries to take Stone's soul. Also the author of the long epic poem John Brown's Body, name this man who wrote "The Devil and Daniel Webster."</p>	<p>Stephen Vincent <u>Benét</u></p>
---	--

Bonus 7: Science — Astronomy

<p>Identify these things about Kepler and his laws of planetary motion.</p>		
<p>A</p>	<p>Kepler studied the astronomical tables of this Danish nobleman and astronomer.</p>	<p><u>Tycho Brahe</u> <i>(accept either)</i></p>
<p>B</p>	<p>Kepler created an improved version of this type of telescope, which uses a lens rather than mirrors.</p>	<p><u>Refracting telescope</u></p>
<p>C</p>	<p>Kepler's first law is that the orbit of a planet takes this geometric shape.</p>	<p><u>Ellipse</u></p>
<p>D</p>	<p>This law of Kepler's states that the square of the orbital period is equal to the cube of the semi-major axis.</p>	<p>Kepler's <u>third</u> law</p>



Tossup 8: Math — Algebra (Computational: 30 Seconds)

In simplest radical form, give the positive geometric mean of 16 and 48.	<u>16 root 3</u>
--	-------------------------

Bonus 8: Fine Arts — Visual Art

Identify these Italian painters.		
A	This man won a contest to create the doors for a Cathedral, and the result was what is now known as the Gates of Paradise.	Lorenzo <u>Ghiberti</u>
B	This man, who created the statue David and painted the Sistine Chapel, was the one who gave the Gates of Paradise their name.	<u>Michelangelo Buonarroti</u>
C	The dome of the Duomo, or Florence Cathedral, was designed by this man.	Filippo <u>Brunelleschi</u>
D	This sculptor of a bronze David also designed a wooden Mary Magdalene.	<u>Donatello</u> (accept <i>Donato di Betto <u>Bardi</u></i>)



Tossup 9: Miscellaneous — Entertainment

<p>Their song "This Is the Place" was a reflection on the death of their original guitarist, Hillel Slovak, and appeared along with "Dosed" and "Venice Queen" on their album "By the Way". Following half a dozen others, their current drummer is Chad Smith, who plays alongside bassist Flea. Identify this band whose most recent album is "Stadium Arcadium", now featuring John Frusciante (<i>froo SHAHN tee</i>) playing guitar behind frontman Anthony Kiedis (<i>KEE diss</i>) on such songs as "Scar Tissue" and "Californication".</p>	<p><u>Red Hot Chili Peppers</u></p>
---	--

Bonus 9: Literature — Literature

<p>Identify the following regarding non-fiction Feminist Literature.</p>	
<p>A</p>	<p>Her The Second Sex paints a picture of women as the "other", something that is different than the "normal" male gender.</p> <p>Simone <u>de Beauvoir</u></p>
<p>B</p>	<p>This work by Maureen Dowd suggests that intelligent women would be better off not seeking a mate, since that will inevitably relegate them to domestic duties.</p> <p><u>Are Men Necessary? When Sexes Collide</u></p>
<p>C</p>	<p>Betty Friedan wrote this work hypothesizing that most women seek fulfillment through a family, leading to a loss of their personal identity.</p> <p>The <u>Feminine Mystique</u></p>
<p>D</p>	<p>This author's "A Vindication of the Rights of Women" called for equality of education between men and women.</p> <p>Mary <u>Wollstonecraft</u> (<i>do not accept Mary Wollstonecraft Shelley</i>)</p>



Tossup 10: Social Studies — Other

<p>It first appeared in Maimonides's "Guide to the Perplexed," Originally used by nominalism to reject the problem of universals, Williams uses it to explain altruism as a individual selection. Popper claims its preference for simplicity is not purely aesthetic, because simpler theories are more easily falsifiable. Also known as the law of parsimony, name this philosophical principle that the simplest explanation is always the best.</p>	<p><u>Occam's razor</u></p>
--	-----------------------------

Bonus 10: Science — Biology

<p>Name these important hormones.</p>		
<p>A</p>	<p>In plants, this class of hormones is responsible for stem elongation.</p>	<p><u>Auxin</u></p>
<p>B</p>	<p>Also known as vasopressin, this mammalian hormone causes the kidneys to retain more water, as its name suggests.</p>	<p><u>Anti-diuretic hormone</u> (<i>accept ADH</i>)</p>
<p>C</p>	<p>Produced in the pineal gland, this hormone is responsible for regulating circadian rhythms.</p>	<p><u>Melatonin</u></p>
<p>D</p>	<p>This hormone causes the liver to release glucose into the bloodstream, having the opposite effect as insulin.</p>	<p><u>Glucagon</u></p>



Tossup 11: Literature — Literature

<p>He created the characters Jimmy Valentine, a safecracker who rescues a child from inside a vault; and Soapy, a New York City hobo who tries to get arrested. While holed up in a Tegucigalpa hotel dodging Federal embezzlement charges, he wrote <i>Cabbages and Kings</i>, in which he coined the term "banana republic." Another of his short stories deals Bill Driscoll and Sam Howard's kidnapping of Ebenezer Dorset's son. With real name William Sydney Porter, identify this author of <i>The Gift of the Magi</i>.</p>	<p>O. Henry (accept <i>William Sydney <u>Porter</u> before it is mentioned</i>)</p>
--	--

Bonus 11: Social Studies — Geography

Given its location, identify the following straits.		
A	This strait separates India from the island of Sri Lanka.	<u>Palk Strait</u>
B	This strait lies between Australia and Tasmania.	<u>Bass Strait</u>
C	Vancouver Island and Washington state's Olympic Peninsula are separated by this strait.	<u>Juan de Fuca Strait</u>
D	The Persian Gulf and the Gulf of Oman are connected by this strait.	Strait of <u>Hormuz</u>



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

Find a function that passes through the origin, and whose derivative is $24x^2 - 10x + 3$.

$8x^3 - 5x^2 + 3x$

Bonus 12: Miscellaneous — Entertainment

Older music videos are not as elaborate as more modern ones, but still found ways to stand out. Identify the following concerning such videos.

A	This band's video for "Land of Confusion" opens with Ronald Reagan sitting in bed with a teddy bear, and an ape sitting in between Ronald and Nancy.	<u>Genesis</u> (<i>do not accept Disturbed, they covered the song</i>)
B	The video for this hit by Swedish group A Ha features a woman in a diner being pulled into a world drawn in pencil.	<u>Take On Me</u>
C	Green lasers and the artist singing in a sparkling gold suit are the only things found in the video for his "Rock With You."	<u>Michael Jackson</u>
D	The video for this band's song "Leave It" features five men upside down, and throughout the video their bodies are manipulated randomly, including being folded in thirds and having their bodies swivel around their heads.	<u>Yes</u>



Tossup 13: Science — Physics

This can be explained by considering the relativistic Doppler effect. Using Minkowski four-space makes the resolution of this problem easy through the use of "proper time", and this paradox can also be resolved by gravitational time dilation. The traveling person is the one who ages more slowly, due to his acceleration. Name this supposed paradox in special relativity that involves two people aging differently as one travels near the speed of light.

twin paradox

Bonus 13: Math — Calculus

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

A	$x^2 + 3x + 1$.	<u>5</u>
B	$5x + \sin(\pi x)$.	<u>5 - pi</u>
C	$\tan(\pi x)$.	<u>pi</u>
D	$\ln x$.	<u>1</u>



Tossup 14: Science — Chemistry

<p>Some compounds exhibit this property only when dissolved in a superacid, like sulfuric acid. Self-ionizable compounds always exhibit this property, like ammonia and water. Other examples include zinc oxide and aluminum hydroxide, which can either donate or accept electron pairs when dissolved. Name this term that refers to a compound that can act as either an acid or a base.</p>	<p><u>Amphoterism</u></p>
--	----------------------------------

Bonus 14: Literature — Literature

<p>Give the authors of the geologically titled works.</p>		
<p>A</p>	<p>Brighton Rock is a novel about a gang leader named Pinkie Brown by this author of The Power and The Glory.</p>	<p>Graham <u>Greene</u></p>
<p>B</p>	<p>"A Tree. A Rock. A Cloud." is a story about a boy and an old man in a cafe by this author of The Member of the Wedding and The Heart is a Lonely Hunter.</p>	<p>Carson <u>McCullers</u></p>
<p>C</p>	<p>Roman Spring of Mrs. Stone is a rare novel by this man, best known as the playwright of such works as The Rose Tattoo and Cat on a Hot Tin Roof.</p>	<p>Tennessee <u>Williams</u></p>
<p>D</p>	<p>This author's poem Sun Stone refers to the Aztec calendar. This Mexican writer also penned The Labyrinth of Solitude.</p>	<p>Octavio <u>Paz</u></p>



Tossup 15: Fine Arts — Music

One of his operas tells the story of Lukáš, a peasant, who has always been in love with Vendulka. That opera, The Kiss, came ten years after his most famous opera which tells of Mařenka and Jeník who want to marry, and eventually sees a phony bear escape from the circus. The most famous part of one of his notable works being the symphonic poem Vltava, identify this Bohemian composer of Má Vlast and The Bartered Bride.

Bedřich Smetana

Bonus 15: Science — Chemistry

Identify these gas laws.		
A	This law states that pressure and volume are inversely proportional when temperature is held constant.	<u>Boyle's law</u>
B	This law states that pressure times volume, divided by temperature, is constant for a constant amount of gas.	<u>Combined gas law</u>
C	This law of partial pressures states that the total pressure of a mixture of gases is equal to the sum of the pressures of each component.	<u>Dalton's law of partial pressures</u>
D	This law of effusion relates the rate that a gas will spread to the gas's molar mass.	<u>Graham's law of effusion</u>



Tossup 16: Literature — Literature

<p>One work in his most famous trilogy tells of Joachim Mahlke, an alienated only child without a father. That work is the sequel to his more famous work in which Oskar Matzerath writes his autobiography from memory while in a sanitorium. Due to his outspoken left-leaning tendencies, his 2006 disclosure that he served in the Waffen-SS during the final months of World War II caused quite a stir. Awarded the 1999 Nobel Prize in Literature for his work, including the Danzig Trilogy, identify this German author of The Tin Drum.</p>	<p>Günter Wilhelm <u>Grass</u></p>
---	---

Bonus 16: Social Studies — World History

<p>In the spirit of the computer game Simbabwe, identify the following African leaders.</p>		
<p>A</p>	<p>The first state president of South Africa, he refused to withdraw from Namibia and oversaw passage of a constitution that made concessions to various minorities.</p>	<p>Pieter Willem <u>Botha</u></p>
<p>B</p>	<p>This Marxist President of Zimbabwe and head of the ZANU-PF party sent troops to help Laurent Kabila fight off rebel forces, and after merging with the ZAPU party of Joseph Nkomo, effectively established one-party rule.</p>	<p>Robert Gabriel <u>Mugabe</u></p>
<p>C</p>	<p>After negotiating a peace with Israel, this Egyptian leader shared a Nobel Peace Prize with Menachem Begin, but was later assassinated by Moslem extremists.</p>	<p>Anwar al-<u>Sadat</u></p>
<p>D</p>	<p>This leader of the Democratic Republic of the Congo was undermined by Moise Tshombe, Joseph Mobutu and President Joseph Kasavubu, and was murdered by Tshombe's regime in Katanga.</p>	<p>Patrice <u>Lumumba</u></p>



Tossup 17: Fine Arts — Visual Art

<p>Adolf Hitler once owned the Roman marble version that was discovered at Hadrian's Villa, but the original was done in bronze. Shown completely naked, it can be seen at the British Museum. The title figure's body is angled down and to the left, and his left hand rests on his right knee, while his right hand is in the air clutching the title object. Name this statue by Myron that depicts a contestant in an athletic event.</p>	<p><u>Discobolus</u> (accept the <u>Discus Thrower</u>)</p>
--	--

Bonus 17: Math — Algebra

Give all the solutions for each of the following equations.		
A	The absolute value of the quantity $2x - 5$, close quantity, equals 6.	<u>-1/2 and 11/2</u> (both required)
B	The square root of the quantity $x + 2$, close quantity, equals x .	<u>2</u>
C	The log base 10 of the quantity $2x - 4$, close quantity, equals 3.	<u>502</u>
D	x cubed minus $4x$ equals 0.	<u>-2 and 0 and 2</u> (all three required)



Tossup 18: Science — Physics

In sinusoidal wave transmission, this quantity is proportional to the wave speed and the squares of both the amplitude and frequency. For other systems with constant torque, it is the dot product of torque with angular velocity, or with constant force, it can be found by the dot product of force and velocity. In DC circuits, it is variously found by V squared over R , or I times V , or I squared times R . Most generally, it is the time-derivative of work. Give this quantity, usually measured in watts, that refers to the amount of work done per unit time.	<u>power</u>
--	---------------------

Bonus 18: Literature — Literature

Given a description, name the following Edgar Allan Poe short stories.		
A	The narrator describes how Roderick, the owner of the title location, accidentally buries his sister alive.	The <u>Fall of the House of Usher</u>
B	Scheduled to be executed the next day, the narrator explains that the fire that burned down his house and his wife's murder occurred because of his hanging of Pluto.	The <u>Black Cat</u>
C	The narrator, angry at Fortunato for some unknown grievance, entombs him by asking him to examine the titular object.	The <u>Cask of Amontillado</u>
D	Prince Prospero secludes himself and a thousand nobles in a castle in the countryside while a plague ravages his people.	The <u>Masque of the Red Death</u>



Tossup 19: Social Studies — World History

<p>Its origin is due to the presence of the Pictish tribes to the north, and the desire for a northern limes (<i>LEE-mays</i>) to the Empire. It probably featured a garrison of about 10,000 troops, and was rebuilt by Septimus Severus following major attacks in 196 and 197. Its construction began in 122 CE, and much of it still exists today, especially in the mid-section. Spanning across what is now northern England, identify this structure, named for a Roman Emperor.</p>	<p><u>Hadrian's Wall</u> (accept <u>Vallum Aelium</u> or the <u>Aelian wall</u>)</p>
---	---

Bonus 19: Fine Arts — Music

Identify the following geographical symphonies.		
A	Mendelssohn's 4th, it opens with an allegro vivace movement in A minor and features an andante "Pilgrim's March."	<u>Italian</u> Symphony
B	This Shostakovitch work in C major is about a city that Stalin destroyed and that Hitler merely finished off."	<u>Leningrad</u> Symphony
C	A series of twelve symphonies by Haydn, including the Clock and Surprise symphonies, are given this collective name.	<u>London</u> Symphonies
D	Schumann's 3rd, it was inspired by a visit to Cologne Cathedral and features a fifth movement "in the style of an accompaniment to a solemn ceremony."	<u>Rhenish</u> Symphony



Tossup 20: Literature — Literature

In one poem by this author, the speaker is "reeling, through endless summer days," and in another the narrator put away "labor, and my leisure too, / For his civility." In one of this writer's poems, the speaker tells the reader "don't tell! / They'd banish us, you know," and claims it must be "dreary to be somebody" who tells their "name the livelong day / To an admiring bog." That poem, "I'm Nobody! Who are you?" was written by this author of "Because I Could Not Stop for Death." Identify this poet, the reclusive "Belle of Amherst."

Emily Dickinson

Bonus 20: Science — Chemistry

Given a polyatomic ion, name its formula. You do not need to provide the charge. (*Pronounce names clearly.*)

A	Carbonate.	<u>CO3</u>
B	Ammonium.	<u>NH4</u>
C	Iodate.	<u>IO3</u>
D	Peroxide.	<u>O2</u>



Tossup A: Social Studies — U.S. History

<p>This craft had deposited 10 satellites in space and made nearly 1000 orbits. In its most famous mission, it was supposed to launch on January 22, but was pushed back six days. Its crew members included Michael Smith and Dick Scobee, as well as Christa McAuliffe, the first teacher to be a shuttle crew member, and its breakup was caused by a failed O-Ring on the shuttle. Name this space shuttle that broke apart just after takeoff in 1986.</p>	<p><u>Challenger</u></p>
---	---------------------------------

Bonus A: Fine Arts — Visual Art

Identify the following architects.		
A	This winner of the Pritzker Prize designed LA's Walt Disney Concert Hall, but is best known for the Guggenheim Museum, in Bilbao, Spain.	Frank <u>Gehry</u>
B	This member of the Prairie School designed the Dana-Thomas House in Springfield, as well as Fallingwater in Pennsylvania.	Frank Lloyd <u>Wright</u>
C	The Gateway Arch in St. Louis was designed by this Finnish architect.	Eero <u>Saarinen</u>
D	The Bauhaus was taken over by this man in 1930, who in 1958 completed the Seagram Building.	Ludwig <u>Mies van der Rohe</u>



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

Give all solutions of the following equation: the absolute value of the quantity $3 - 8x$, close quantity, equals 13.

$x = 2$ and $-5/4$ (both answers required in any order)

Bonus B: Social Studies — Geography

Name these Illinois cities with names perhaps famous for other reasons than their presence in the Land of Lincoln.

A	This super city along Illinois' southern border has no paper called the Daily Planet...but it does have a caped statue.	<u>Metropolis</u>
B	This city in eastern Illinois is home to Balmoral Park and is nowhere near the Mediterranean.	<u>Crete</u>
C	This northern city is in no way associated with trailers, but is the namesake of the county whose largest city is Rockford.	<u>Winnebago</u>
D	This western city, also known as Lovejoy, has been called "America's First Black Town" in reference to its primarily African-American population. However, it has nothing to do with a borough of New York.	<u>Brooklyn</u>



Tossup C: Fine Arts — Music

He wrote operettas such as *Désirée*, about a Marquee's trials to marry the title character, and *El Capitan*, making fun of false heroes. His first true commercial success was "The Gladiator", though it was later eclipsed by works like his "Hands Across the Sea." Producing such works as "Semper Fidelis" and "Stars and Stripes Forever," identify this man nicknamed "The March King".

John Philip Sousa

Bonus C: Math — Algebra

Let x equal $3 + 4i$, and y equal $2 + i$. Find the following, answering in $a + bi$ form when appropriate.

A	The complex modulus of x .	<u>5 + 0i</u>
B	x times y .	<u>2 + 11i</u>
C	x minus y .	<u>1 + 3i</u>
D	x divided by y .	<u>2 + i</u>