



Tossup 1: Literature — Literature

<p>Minor characters in it include Nepommuck, a Hungarian ex-pupil of another character, and Mrs. Pearce, the down-to-earth housekeeper of Nepommuck's teacher. The main action of the play initiates after Colonel Pickering, a Sanskrit expert, makes a wager. That bet concerns a phonetics professor who tries to turn a cockney girl into a proper lady. Name this comedy that follows Henry Higgins and Eliza Doolittle, a work by George Bernard Shaw that takes its name from a mythological Greek sculptor.</p>	<p><u>Pygmalion</u></p>
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Bonus 1: Social Studies — Geography

Identify these Asian rivers.		
A	This longest river in Asia is the third longest in the world, and flows into the East China Sea at Shanghai.	<u>Yangtze River</u> (<i>prompt Chang Jiang</i>)
B	This river that flows into the Bohai Sea is the second longest in China and known as China's Sorrow.	<u>Yellow River</u> (<i>prompt Huang He or Ho</i>)
C	This 12th longest river of the world flows through much of Southeast Asia including Cambodia and Vietnam before emptying into the South China Sea.	<u>Mekong River</u>
D	The source for this longest river of Pakistan is actually in Tibet, and it also flows through India.	<u>Indus River</u>



Tossup 2: Social Studies — Geography

<p>Jim White named much of this national park, including King's Palace, Iceberg Rock, and Witches' Finger. Limestone can be found here, as well as flowstone, and it also contains a large amphitheater. In his travels west, Ansel Adams took many pictures here, including of the Big Room, which includes the Rock of Ages. Name this national park notable for its caves located in southeastern New Mexico.</p>	<p><u>Carlsbad Caverns National Park</u></p>
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Bonus 2: Miscellaneous — Interdisciplinary

<p>Identify the following about events which occurred on the same day. In each case, two answers are needed.</p>		
<p>A</p>	<p>January 1, 1801: This largest asteroid is discovered by Giuseppi Pazzi; and this nation came into being when the Act of Union came into enforcement.</p>	<p><u>Ceres</u> and the <u>United Kingdom of Great Britain and Ireland</u> (<i>do not accept or prompt on England or Great Britain</i>)</p>
<p>B</p>	<p>February 12, 1809: This future American president; and this future English geologist, naturalist, and traveler were both born.</p>	<p><u>Abraham Lincoln</u> and <u>Charles Darwin</u></p>
<p>C</p>	<p>September 26, 1687: Venetian forces partially destroy this structure while bombing a Turkish garrison besieged there; and this man was given approval to lead an army on England, touching off the Glorious Revolution.</p>	<p><u>Parthenon</u> and <u>William III</u> (<i>accept <u>William of Orange</u></i>)</p>
<p>D</p>	<p>December 31, 1999: This Russian leader resigns; and this engineering accomplishment is surrendered by the United States.</p>	<p><u>Boris Nikolayevich Yeltsin</u> and the <u>Panama Canal</u></p>



Tossup 3: Science — Chemistry

<p>Sanderson proposed determining it mathematically through an inverse relationship to atomic radius, and Allen correlates it with average valence electron energy. Mulliken proposed measuring it in electronvolts as the mean of the ionization energy and electron affinity, while the standard scale is determined by fixing hydrogen at 2.20 and comparing bond dissociation energies of different compounds. Name this scale first proposed by Pauling, which measures an atom's tendency to attract electrons in a covalent bond.</p>	<p><u>Electronegativity</u></p>
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Bonus 3: Literature — Literature

<p>Identify the following about characters who died in Literature.</p>	
<p>A</p>	<p>This character eventually withers away in his own bedroom after having an apple lodged in his back and after being turned into a giant insect.</p> <p><u>Gregor Samsa</u></p>
<p>B</p>	<p>This Tolstoy character is a high court judge who bangs his side while hanging up curtains, eventually coming to a deathbed revelation after spending many months slowly dying.</p> <p><u>Ivan Ilych Golovin</u></p>
<p>C</p>	<p>This man is smothered by "Chief" Bromden after being lobotomized in a work by Ken Kesey.</p> <p><u>Randle Patrick McMurphy</u> <i>(accept either first or last name)</i></p>
<p>D</p>	<p>This man is shot in the back of the head by his best friend George Milton in a Steinbeck novella.</p> <p><u>Lennie Small</u></p>



Tossup 4: Math — General

<p>This mathematician's last words were allegedly "Do not disturb my circles," to a Roman soldier who then killed him. While still alive, he is credited with work on developing simple machines, such as his namesake screw, and levers, about which he said "Give me a place to stand on, and I will move the Earth." Name this Greek thinker who gave a very close estimate for pi, and is known for shouting "Eureka" after entering a bathtub.</p>	<p><u>Archimedes</u> of Syracuse</p>
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Bonus 4: Science — Earth Science

<p>Identify these scales for physical phenomena.</p>		
A	<p>On a scale from 0 to 12, this scale measures wind speeds, with 12 being hurricane-force winds.</p>	<p><u>Beaufort</u> scale</p>
B	<p>On a scale from F0 to F5, this rates tornadoes by the damage they inflict.</p>	<p><u>Fujita-Pearson</u> scale</p>
C	<p>This scale measures the intensity of earthquakes based on the amount of damage they cause, on a scale from 1 to 12.</p>	<p>Modified <u>Mercalli</u> intensity scale</p>
D	<p>This scale measures the magnitude of earthquakes based on the amount of energy they release, on a logarithmic scale.</p>	<p><u>Richter</u> magnitude scale</p>



Tossup 5: Fine Arts — Music

<p>As the curtain rises E soffitto e parenti (“And ceiling and walls”) is played, introducing the audience to a main leitmotif of this opera. At one point, we see a knife that has the words “Who cannot live with honor must die with honor” inscribed upon it. The beginning sees Sharpless and Goro inspecting a house, which is eventually purchased by the main character for 999 years. Seeing Goro the matchmaker find Pinkerton a wife named Cio-Cio San, identify this inspiration for Miss Siagon, an opera by Giacomo Puccini.</p>	<p><u>Madama Butterfly</u></p>
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Bonus 5: Math — Geometry

Give the edge lengths of the following cubes.		
A	A cube inscribed in a sphere of diameter 3.	<u>root 3</u>
B	A cube circumscribed about a sphere whose great circle has circumference 2.	<u>2 / pi</u>
C	A cube with an inscribed square pyramid whose volume is 72.	<u>6</u>
D	A cube whose surface area is equal to twice its volume.	<u>3</u>



Tossup 6: Miscellaneous — Entertainment

<p>One of the two main characters of this musical changes her name in order to be kinder to Dr. Dilleman, a teacher at the school where part of this musical takes place. That school, Shiz academy, is overseen by Madame Morrible a master of the weather who is constantly on the look out for magical talent. The main character, who was played by Idina Menzel in the original cast, soon finds out that all is not what it seems, and declares what she knows is right in "Defying Gravity". Identify this spinoff of The Wizard of Oz, based off a book by Gregory McGuire, that sees Elphaba and Glinda confront the wizard and their friendship.</p>	<p><u>Wicked</u></p>
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Bonus 6: Social Studies — Other

<p>Identify these different forms of business.</p>		
<p>A</p>	<p>In this type, a single person acts as the business, and that person maintains all debts and liability for the business.</p>	<p><u>Sole Proprietorship</u></p>
<p>B</p>	<p>This type of business has two or more people who are jointly responsible for the liabilities and debts of the business.</p>	<p><u>Partnership</u> (do not accept Limited or Limited Liability Partnership)</p>
<p>C</p>	<p>This common form of business can be closed or publicly traded, and is an entity distinct from its owners and employees; liability is typically only the fault of the business, not individuals.</p>	<p><u>Corporation</u></p>
<p>D</p>	<p>This form of business is an entity distinct from its owners, and can be taxed separately, but owners remain responsible for its debts. First allowed in the U.S. in the 1970s, it is very similar to German "GmbH" companies.</p>	<p><u>Limited Liability Company</u> (do not accept Limited Liability Corporation)</p>



Tossup 7: Math — Other (Computational: 30 Seconds)

Suppose you have a club with 12 members, 6 male and 6 female, and you want to form six-member committees. If each committee must have three men and three women, how many different committees can be formed?	<u>400</u>
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Bonus 7: Fine Arts — Visual Art

Identify the following about Pablo Picasso.		
A	This painting, featuring a light bulb and cow, was created to show a massacre that happened during the Spanish Civil War.	<u>Guernica</u>
B	This painting, seeing some influence from African masks, features five nude women, all from the red light district of Barcelona.	<u>Les Demoiselles d'Avignon</u> <i>(accept <u>The Young Ladies of Avignon</u>)</i>
C	This pair of paintings has some differences between them, including the Pierrot and Harlequin switching places, with the Harlequin now playing violin instead of guitar.	<u>Three Musicians</u>
D	This Period came after his Blue Period, and before his African Period, and saw works like Boy with a Pipe.	<u>Rose Period</u>



Tossup 8: Social Studies — U.S. History

Judge Webster Thayer was later targeted for his role in their trials. Their troubles began after they allegedly robbed Slater-Morrill Shoe Company of over \$15,000, and murdered Alessandro Berardelli. Connected with bombings in New York through anarchist ties, prejudice was rife throughout their trials. Exonerated 50 years too late by Massachusetts Governor Michael Dukakis, name these two Italian men electrocuted in 1927 who have become poster boys for the violation of civil liberties.

**Ferdinando Nicola Sacco and
Bartolomeo Vanzetti**

Bonus 8: Science — Chemistry

Identify these things related to heat in chemistry.

A	This "latent heat" is the amount of energy required to transform a substance between its solid and liquid states.	Latent heat of <u>fusion</u>
B	This "latent heat" is the amount of energy required to transform a substance between its liquid and gaseous states.	Latent heat of <u>vaporization</u>
C	This is the amount of energy per gram required to increase the temperature of a substance by 1 degree Celsius.	<u>Specific heat capacity</u> (<i>do not accept <u>heat capacity</u></i>)
D	This form of free energy measures the amount of "useful" work obtainable from a chemical system, symbolized capital A.	<u>Helmholtz</u> free energy



Tossup 9: Literature — Literature

In one scene, an old lady wins a prize at an agricultural fair in Yonville, and in another, a doctor unsuccessfully performs an operation on a clubfooted boy named Hippolyte. Over the course of it, the protagonist has affairs with Léon Dupuis and Rodolphe Boulanger and later seeks loan money from them to no avail. After not paying off her debts, that same character commits suicide by taking arsenic. After seeing the letters to her lovers; the protagonist's husband, Charles, states that fate is to blame, not Emma. Name this realist novel by Gustave Flaubert.

Madame Bovary

Bonus 9: Math — Calculus

Integrate the following functions from x equals 0 to x equals 1.

A	$3x^2 - 3x + 2$.	<u>3/2</u>
B	The natural log of x .	<u>-1</u>
C	$5x^3 - 2x$.	<u>1/4</u>
D	The sine squared of πx .	<u>1/2</u>



Tossup 10: Science — Astronomy

<p>It features the Hayashi track, a vertical line, members of which are warm enough to maintain hydrostatic equilibrium. Its red clump in the upper-right contains helium-burning stars, while the horizontal branch is reached by stars after progressing along the red giant branch. With spectral type or color index on the horizontal axis, and absolute magnitude on the vertical axis, identify this star diagram, which contains a line called the main sequence.</p>	<p><u>Hertzsprung-Russell</u> diagram (accept <u>HR</u> diagram)</p>
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Bonus 10: Literature — Literature

<p>Identify the following figures that came from the head of Edgar Allan Poe.</p>		
<p>A</p>	<p>At the end of the story, his family home falls into the tarn below, shortly after his sister comes back from the dead to seek revenge.</p>	<p><u>Roderick Usher</u></p>
<p>B</p>	<p>In one story featuring this character his actions aid the queen in getting out from under the thumb of Minister D.</p>	<p>C. <u>Auguste Dupin</u> (<i>doo-PAN</i>)</p>
<p>C</p>	<p>This wine connoisseur gave a thousand injuries to an Italian nobleman, and ends up paying the price by being buried alive.</p>	<p><u>Fortunato</u></p>
<p>D</p>	<p>This character hosts a lavish party during an outbreak of a plague, featuring a ballroom containing seven rooms which can only be seen one at a time.</p>	<p>Prince <u>Prospero</u></p>



Tossup 11: Miscellaneous — Other

<p>In one of his works, he explains that what we think of as lobsters today were not introduced to Maine until the turn of the century, a secret canal was built from lobster-ridden New York City. He asserts that these new lobsters supplanted a different, furrier kind of lobster. He is a frequent collaborator with Johnathan Coulton, who actually sang a song about "Old Furry Lobster", when they were on Attack of the Show together. Portraying the PC on the "Get a Mac." commercials, identify this man who recently penned a sequel to his phony trivia book, <i>The Areas of My Expertise; More Information Than You Require</i>.</p>	<p>John Kellogg <u>Hodgman</u></p>
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Bonus 11: Literature — Mythology

Identify the following about mythical objects.		
A	This staff of Hermes is depicted as a winged rod with two snakes coiled around it. It is commonly used in modern times as a symbol of the medical profession.	<u>caduceus</u> (<i>ca-DOO-sus or ca-DOOS-eus</i>)
B	The symbol of Ma'at, it is weighed by Anubis in the Hall of the Two Truths. Failing this test resulted in being consumed by Ammit.	<u>feather of truth</u>
C	Among the objects owned by this deity are Draupnir, a ring that replicates itself eight times every nine nights, and Gungnir, a never-missing spear.	<u>Odin</u> (<i>accept Wotan, Wodan, or Othinn</i>)
D	Kusanagi, a powerful one of these weapons, was obtained by Susanoo after slaying the eight-forked dragon.	<u>grass-cutting sword</u>



Tossup 12: Social Studies — Other

This man was originally a botanist and biologist, and his doctoral thesis at Harvard concerned the study of gall wasps. His namesake reports garnered widespread media attention, and caused him to appear on the cover of Time in 1953. Some critics of those reports state that this man protected pedophiles and that he focused too much research on prostitutes. Many of those studies were conducted while he was at Indiana University, which now has a research institute named after him. Name this pioneering researcher of human sexuality.

Alfred Charles Kinsey

Bonus 12: Math — General

Convert the following numbers from their specified bases to base 10.

A	101101 base 2.	<u>45</u>
B	234 base 5.	<u>69</u>
C	656 base 7.	<u>335</u>
D	ABC base 16.	<u>2748</u>



Tossup 13: Math — Calculus (Computational: 30 Seconds)

Given the parametric equations $x = 5t^2 + 3$, and $y = \frac{1}{t} + 3$, find the slope at (8, 4).

1/5

Bonus 13: Science — Biology

Identify these things related to species relying on each other.

A	This is the general term for close interactions between species, and can be either obligate if they are required for survival, or facultative.	<u>Symbiosis</u>
B	In this form, in which one organism benefits from the other, at the expense of the other. An example is hookworms or fleas.	<u>Parasitism</u>
C	In this form, one species benefits from the other, and the other is unaffected, like hermit crabs using discarded shells.	<u>Commensalism</u>
D	In this form, both species help each other.	<u>Mutualism</u>



Tossup 14: Literature — Literature

<p>In one of his works, Benny Profane, one of hundreds of characters, shoots alligators in New York sewers. He also wrote a story in which Oedipia Maas waits to see who bids on the titular stamp collection. His most famous novel famously begins "A screaming comes across the sky" and follows lieutenant Tyrone Slothrop as he wonders about whether his sexual experiences dictate the launching of V-2 rockets, especially Rocket 00000. The author of Vineland and V., name this American author of complex novels such as The Crying of Lot 49 and Gravity's Rainbow.</p>	<p><u>Thomas Pynchon</u></p>
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Bonus 14: Miscellaneous — Entertainment

<p>Identify these bands, all of whom have songs on Rock Band 2.</p>	
<p>A</p>	<p>This Kurt Cobain fronted band's song Drain You is on the game; that song is off the album Nevermind, which is better known for its first track, Smells Like Teen Spirit.</p> <p><u>Nirvana</u></p>
<p>B</p>	<p>Brandon Flowers is the lead singer of this indie rock group, with hit songs like When You Were Young and Mr. Brightside.</p> <p><u>The Killers</u></p>
<p>C</p>	<p>I Write Sins Not Tragedies is the hit song off this emo punk group's first album, but Rock Band 2 features Nine in the Afternoon, a song off their second album, Pretty. Odd.</p> <p><u>Panic at the Disco</u></p>
<p>D</p>	<p>Scott Weiland is the eccentric lead singer of this band that reunited in 2008; their songs Vasoline and Interstate Love Song can be found on Rock Band 2.</p> <p><u>Stone Temple Pilots</u></p>



Tossup 15: Science — Biology

<p>The Kozak consensus or Shine-Dalgarno sequences are located in the leader sequence of one of these. Their poly-A tails protect them from degradation, and are added after spliceosomes remove introns. Their 5 prime cap and binding sites promote attachment to ribosomes, and their coding sequence lies in between their untranslated regions. Identify these sequences of nucleic acids transcribed from DNA, and which are translated by ribosomes into proteins.</p>	<p><u>mRNA</u> (accept <u>messenger RNA</u>, prompt on <u>RNA</u>)</p>
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Bonus 15: Social Studies — U.S. History

Answer these questions about labor history		
A	This town in Massachusetts is known for the young women who worked in the textile mills, and the Female Labor Reform Association that formed there.	<u>Lowell</u> Massachusetts
B	This place in Chicago is remembered for an 1886 bomb that ended in the death of 8 police officers and the execution of 4 anarchists.	<u>Haymarket</u> Square
C	Also in 1886, this man became the founding president of the American Federation of Labor.	Samuel <u>Gompers</u>
D	This 1918 Supreme Court case struck down the Keating-Owen act which gave the federal government the power to regulate child labor.	<u>Hammer v. Dagenhart</u>



Tossup 16: Fine Arts — Visual Art

<p>The painter of this work is said to have taken aspects of the work from a painting of the same title by Apelles. On the right side of the painting are three trees whose branches overshadow a woman dressed in a floral print giving the central character some red clothing. While on the left of the painting Chloris and Zephyrus blow the titular character towards the shore. Name this painting of the titular goddess emerging from a clam shell, a masterpiece of Sandro Botticelli.</p>	<p><u>The Birth of Venus</u></p>
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Bonus 16: Math — Algebra

Expand the following products as polynomials.		
A	The quantity $(x + 47)$ times the quantity $(x - 47)$.	<u>$x^2 - 2209$</u>
B	The quantity $(2x + 3i)$ times the quantity $(x - 5i)$.	<u>$2x^2 - 7xi + 15$</u>
C	The quantity $(2x + 2)$ times the quantity $(3x + 9)$.	<u>$6x^2 + 24x + 18$</u>
D	The quantity $(x^2 + 4x + 5)$ times the quantity $(x - 11)$.	<u>$x^3 - 7x^2 - 39x - 55$</u>



Tossup 17: Math — Algebra (Computational: 30 Seconds)

Bill can paint a wall in two hours, and Carolyn can paint a wall in three hours. They have four walls to paint, but Bill works alone for an hour before Carolyn comes over. How many hours will they be painting together?	<u>21/5</u> hours (accept <u>4.2</u> hours)
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Bonus 17: Literature — Literature

Name these T.S. Eliot works.	
A	This verse play concerns the death of Thomas à Beckett. <u>Murder in the Cathedral</u>
B	This poem's five sections include 'The Burial of the Dead' and 'A Game of Chess', and it's first line is "April is the cruellest month". The <u>Waste Land</u>
C	This poem's first stanza states "This is the way the world ends / Not with a bang but a whimper." The <u>Hollow Men</u>
D	In this poem, the main character describes women who "come and go / Talking of Michelangelo". The Love Song of J. Alfred <u>Prufrock</u>



Tossup 18: Social Studies — World History

<p>Two wars, fought roughly 20 years apart, have actually been called by this name, though the second is more well known. Two years prior to that conflict, 600 men under Leander Jameson failed in their attempt to ignite an uprising. That second conflict actually began after the British refused Paul Kruger's ultimatum to withdraw their troops from the Transvaal. Name these conflicts, the second of which the British won by defeating the Orange Free State and the South African Republic.</p>	<p>First and Second <u>Boer Wars</u></p>
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Bonus 18: Science — Physics

<p>Identify these Nobel Laureates in Physics.</p>		
<p>A</p>	<p>This American Caltech physicist shared the 1965 Nobel for creating quantum electrodynamics and his path-integral formulation of quantum mechanics.</p>	<p>Richard <u>Feynman</u></p>
<p>B</p>	<p>This Italian won the 1938 Nobel for creating the first manmade nuclear chain reaction.</p>	<p>Enrico <u>Fermi</u></p>
<p>C</p>	<p>This Frenchman won the 1929 Nobel for his discovery of the particle-wave duality, stating in his namesake formula that $\lambda = h/p$.</p>	<p>Louis <u>de Broglie</u></p>
<p>D</p>	<p>This man shared the Nobel Prize in 1956 and 1972, first for transistors and again for superconductivity.</p>	<p>John <u>Bardeen</u></p>



Tossup 19: Science — Physics

<p>It must be modified for dispersive media, because transmission speed in those media is dependent on wavelength. In birefringent media, only one of the two rays follows this law. It can be derived directly from Fermat's principle or the Huygens-Fresnel principle, and has been explained in analogy to troops marching across a bog and a field. Name this law of optics which states that the index of refraction times the sine of the angle of incidence is constant.</p>	<p>Snell's law (accept <u>Descartes's law</u>)</p>
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Bonus 19: Fine Arts — Music

Identify the following musical forms.		
A	This is the form of the first movement of a classical symphony, in the thematic pattern ABA.	<u>Sonata-allegro</u>
B	This dance form replaced the minuet as the third movement of Romantic symphonies.	<u>Scherzo</u>
C	This form derives from the baroque concept of ritornello, where an initial theme is repeated throughout ; for example, in the pattern ABACADA.	<u>Rondo</u>
D	This form is a piece for orchestra and a solo instrument, and the "grosso" type includes the Brandenburg ones by Bach.	<u>Concerto</u>



Tossup 20: Literature — Mythology

<p>Born in Corinth, this figure once sought advice from Polyidus. Late in life, he attempted to travel up to Mount Olympus to visit the gods, but Zeus sent a gadfly to thwart him. That gadfly stung the horse that he found after Athena appeared in a dream and gave him a golden bridle. However, he is better known for a task that Proteas sent him on, involving a creature that terrorizes Lycia and that is part lion, part goat, and part snake. Identify this hero who famously rode Pegasus and slayed the Chimera.</p>	<p><u>Bellerophon</u> (<i>accept <u>Bellerophontes</u></i>)</p>
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Bonus 20: Social Studies — World History

Identify the following about the Stuart Restoration in England.		
A	This man converted to Catholicism on his death bed, originally becoming king after the death of Cromwell.	<u>Charles II</u>
B	The successor to the king in question one, he was overthrown in 1688 as the result of a coup.	<u>James II</u>
C	This was the name of the coup that overthrew the king in question two.	<u>Glorious Revolution</u>
D	This husband and wife pair became king and queen of England after the coup.	<u>William III and Mary II</u> (<i>prompt on William and Mary</i>)



Tossup A: Fine Arts — Visual Art

<p>One sculpture that this painting is often linked to is Michelangelo's Pieta, citing the elongated arm that dominates the foreground. The painting is now held in the Royal Museum of Fine Arts in Brussels, Belgium, where its artist lived in exile after the fall of Napoleon. On a desk in the foreground sit an ink bottle and quill presumably used to write the letter that is in the subject's left hand. The artist notably left out the subject's skin condition presumably in an attempt to portray the subject with the purity of a martyr. Name this painting, featuring the bathtub where the titular action occurred, a work of Jacques-Louis David.</p>	<p>The <u>Death of Marat</u></p>
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Bonus A: Science — Biology

Identify these terms related to bacterial sharing of genetic information.		
A	In this process, a sex pilus physically connects two bacteria and one transfers genetic information to the other.	<u>Coniugation</u>
B	A sex pilus can only form if this plasmid is present in the initiating bacteria.	<u>E plasmid</u>
C	Bacteria can take in loose DNA from their surroundings, in this process.	<u>Transformation</u>
D	Bacteria can also gain bacterial DNA from phages, in this process.	<u>Transduction</u>



Tossup B: Social Studies — Geography

In the latter part of the 19th century, many Ghost Dances were performed in this area, and nearby this national park is another national area, Minutemen Missile National Historical Site, which documents the Cold War arms race between the Soviet Union and America. Its highest point is at Red Shirt Table, and in addition to the National Park Service, part of it is administered by the Oglala Sioux, who have long had a presence in the area, which features mixed grass prairie land. Name this national park located in South Dakota.	<u>Badlands</u> National Park
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Bonus B: Math — Other

Give the expected value of each of the following events.	
A	You roll one standard six-sided die. <u>3.5</u>
B	The number of heads you get if you flip ten fair two-sided coins. <u>5</u>
C	If you have a shuffled standard deck of 52 cards which is missing all face cards, including aces, the value of the top card in the deck. <u>6</u>
D	The amount of money you win per turn if you get a dollar for rolling a one, and no money for rolling another number on a standard die. <u>1/6</u> dollars



Tossup C: Literature — Literature

<p>In act two of this drama, Rocky Pioggi, the nighttime bartender, breaks up a fight between Pearl and Cora. Minor characters include Joe Mott, a black ex-casino-owner and Willie Oban, a graduate of Harvard Law School. Taking place in Harry Hope's Manhattan bar, the frequently drunk characters tell of their pipe dreams and await the protagonist who admits to the murder of his wife Evelyn in the final act. Seeing Larry Slade put his head in his hands and stare ahead at the end, identify this play about Theodore "Hickey" Hickman by Eugene O'Neill.</p>	<p>The <u>Iceman Cometh</u></p>
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Bonus C: Fine Arts — Music

Given a work, name the composer.		
A	The Tales of Hoffmann	Jacques <u>Offenbach</u>
B	The Flying Dutchman	Wilhelm Richard <u>Wagner</u>
C	Turandot	Giacomo <u>Puccini</u>
D	Symphony No. 41, also known as the Jupiter Symphony	Wolfgang Amadeus <u>Mozart</u>