



### Tossup 1: Social Studies — U.S. History

<p>It began when a sentry retreated into a Customs House after being insulted. He was relieved by members of the Main Guard, including Hugh Montgomery, who supposedly gave the order to fire on the surrounding civilians. In the ensuing gunfire, five men died, including Crispus Attacks. Name this March 5, 1770 event, recorded by Paul Revere in a famous engraving, in which British soldiers fired into a group of Bostonians.</p>	<p><b><u>Boston Massacre</u></b></p>
---	--------------------------------------

### Bonus 1: Math — General

Give the following conversions.		
<b>A</b>	450 degrees to radians.	<b><u>5 pi / 2</u></b>
<b>B</b>	360 degrees to grads.	<b><u>400 grads</u></b>
<b>C</b>	(1, 1) in Cartesian coordinates to polar coordinates.	<b><u>(root 2, pi / 4)</u></b>
<b>D</b>	(4, pi) in polar coordinates to Cartesian.	<b><u>(-4, 0)</u></b>



## Tossup 2: Science — Chemistry

Some solid-dye printers use this process to fix hot dye to paper, and freeze-drying uses this process to remove ice from a substance. More notably, it occurs for dry ice, which turns directly into carbon dioxide gas. The opposite of deposition, name this phenomenon in which a substance transitions directly from solid to gas.	<b><u>Sublimation</u></b>
--	---------------------------

## Bonus 2: Literature — Literature

Answer the following about historical figures in poetry.		
<b>A</b>	Percy Shelley used the Greek name for this Egyptian pharaoh for his poem "Ozymandias".	<b><u>Ramses II</u></b>
<b>B</b>	The poems "O Captain, My Captain" and "When Lilacs Last in the Dooryard Bloomed" were written by Walt Whitman in honor of this President.	<b>Abraham <u>Lincoln</u></b>
<b>C</b>	Duessa, the accomplice of Archimago in "The Faerie Queene", represents this Scottish monarch.	<b><u>Mary, Queen of Scots</u></b>
<b>D</b>	In a poem dedicated to him, Vachel Lindsay wrote that he "led loudly with his big bass drum" and when he died his eyes "were still dazzled by the grace of God."	<b>General William <u>Booth</u></b>



### Tossup 3: Math — General (Computational: 30 Seconds)

If 10 typists type 300 pages in 10 minutes, how many pages do 2 typists type in 5 mins?	<b><u>30</u> pages</b>
---	------------------------

### Bonus 3: Social Studies — U.S. History

Identify the following acts that dealt with business.	
<b>A</b>	Outlawing combinations that restrained trade, it was invoked in the ruling that led to the creation of the "Baby Bells" but immediately after its passage it was primarily used against trade unions. <b><u>Sherman Antitrust Act</u></b>
<b>B</b>	Passed over Truman's veto, it established an 80-day "cooling off" period if a strike would threaten national safety or health, and outlawed the closed shop. <b><u>Taft-Hartley Act</u></b> ( <i>accept Labor-Management Relations Act</i> )
<b>C</b>	The Robinson-Patman Act reinforced the section of this act concerning price discrimination, and it also banned the practice of natural competitors creating sales territories. <b><u>Clayton Antitrust Act</u></b>
<b>D</b>	This 2002 act created the Public Company Accounting Oversight Board, and was passed in the wake of the black eyes that were Worldcom, Tyco, and Enron. <b><u>Sarbanes-Oxley Act</u></b> ( <i>prompt on Sox or Sarbox</i> )



### Tossup 4: Literature — Literature

<p>Ironically, this author's Paris in the Twentieth Century was not published until the 1990s. This author told of Cyrus Smith and a group of castaways who find themselves stranded after attempting to escape a Confederate prison in <i>The Mysterious Island</i>. This author also wrote of Phileas Fogg and Passepartout's embarkment on a nearly three month expedition. However, he is most famous for the novel in which Aronnax boards the Nautilus and sets off on an expedition with Captain Nemo. Name this author of <i>Around the World in Eighty Days</i> and <i>Twenty Thousand Leagues Under the Sea</i>.</p>	<p><b>Jules Gabriel <u>Verne</u></b></p>
--	--

### Bonus 4: Science — Biology

Identify these molecules important to biological processes.		
<b>A</b>	The cell breaks down this sugar into energy, whose main form is also known as dextrose.	<b><u>Glucose</u></b>
<b>B</b>	This polysaccharide forms the cell wall of plant cells.	<b><u>Cellulose</u></b>
<b>C</b>	This class of lipids has four fused carbon rings, and include an "anabolic" variety.	<b><u>Steroid</u></b>
<b>D</b>	This most common protein in plants can pull either carbon dioxide or oxygen from the atmosphere, and is key in photosynthesis.	<b><u>Rubisco</u></b>



**Tossup 5: Miscellaneous — Interdisciplinary**

<p>It is the call sign of AM 1450 in Cordova, Alaska, as well as the ICAO code for an airport in Los Alamos, New Mexico. It also factors into the name of a packaging type that most action figures and some electronics are packaged in, in addition to providing an alternate name for the type of phone colloquially known as a 'flip phone'. Representing such delicious species as the geoduck and quahog, identify this bivalve which, in a famous painting, Venus emerged from.</p>	<p><u>Clam</u></p>
--	--------------------

**Bonus 5: Fine Arts — Music**

<p>Name these works of Peter Tchaikovsky.</p>		
<p><b>A</b></p>	<p>Featuring the "Dance of the Sugar Plum Fairy" and the antagonistic Mouse King, this ballet is named for a toy possessed by Clara.</p>	<p><b><u>The Nutcracker</u></b></p>
<p><b>B</b></p>	<p>This symphonic poem is based on a Shakespeare play of the same name, and its first theme represents Friar Laurence.</p>	<p><b><u>Romeo and Juliet</u></b></p>
<p><b>C</b></p>	<p>This composition commemorates the Russian defense against Napoleon at the Battle of Borodino and features cannon fire.</p>	<p><b><u>1812 Overture</u></b></p>
<p><b>D</b></p>	<p>Based on a Pushkin story, this opera is about the love interchange between Tatyana and the title character, who ends up alone.</p>	<p><b><u>Eugene Onegin</u></b> (<i>accept Yevgeny Onegin</i>)</p>



### Tossup 6: Math — General

<p>This mathematician and thinker popularized the use of superscripts to represent exponents. His namesake "Rule of Signs" is still used today to determine the number of positive and negative roots of an equation. His other work helped paved the way for the invention of calculus, but his best known mathematical work is in geometry and graphs, where the most common coordinate system still bears his name. Name this French mathematician and philosopher who is remembered for saying "I think therefore I am."</p>	<p><b>René <u>Descartes</u></b></p>
--	-------------------------------------

### Bonus 6: Social Studies — Current Events

<p>Identify these people associated with Rod Blagojevich.</p>		
<p><b>A</b></p>	<p>Blagojevich was arrested for allegedly trying to sell off Barack Obama's senate seat, including to this current Congressman and son of the founder of Rainbow/PUSH coalition.</p>	<p><b>Jesse <u>Jackson, Jr.</u></b></p>
<p><b>B</b></p>	<p>This man, Blagojevich's chief of staff, was also arrested.</p>	<p><b>John <u>Harris</u></b></p>
<p><b>C</b></p>	<p>This U.S. Attorney is leading the state's prosecution of Blagojevich.</p>	<p><b>Patrick <u>Fitzgerald</u></b></p>
<p><b>D</b></p>	<p>Many called for Blagojevich's resignation, including this man, the Lieutenant Governor under Blagojevich.</p>	<p><b>Pat <u>Quinn</u></b></p>



### Tossup 7: Literature — Literature

<p>The frontispiece to his most famous collection features him at age 37, wearing a hat, his right arm akimbo and his left hand in his pocket. That collection contains poems such as "Out of the Cradle Endlessly Rocking," "I Hear America Singing," "I Sing the Body Electric," and in later editions, his elegy to Abraham Lincoln, "When Lilacs Last in the Dooryard Bloom'd." Producing the first American translation of Dante's The Divine Comedy, along with the poem "Song of Myself," identify this man, most famous for his poetry collection Leaves of Grass.</p>	<p><b>Walt <u>Whitman</u></b></p>
--	-----------------------------------

### Bonus 7: Miscellaneous — Interdisciplinary

Answer these questions about different kinds of bases.		
<b>A</b>	An Arrhenius base must add this ion to solution.	<b><u>hydroxide</u></b> (accept <u>OH minus</u> )
<b>B</b>	The Space Shuttle can land at this air force base in California.	<b><u>Edwards Air Force Base</u></b>
<b>C</b>	Douglas Adams, replied to an argument to explain why he decided to write that this number equals 9 times 6: "I don't write jokes in base 13."	<b><u>42</u></b>
<b>D</b>	The double bass is the only orchestral string instrument tuned in this interval. As a hint, the bass has the same open string notes as a violin, but inverted.	<b><u>perfect fourth</u></b>



### Tossup 8: Social Studies — World History

<p>It began with 55 divisions, and a key part of it was commanded by von Manteuffel. German forces were required to cross the Meuse, with the eventual aim of recapturing Antwerp. However, they were unable to capture the crossroads town of Bastogne (<i>bass-TONE</i>), which doomed this offensive. Name this final German offensive of World War II, which began in December 1945 in a Belgian forest.</p>	<p><b><u>Ardennes Offensive</u></b> (<i>accept Battle of the <u>Bulge</u></i>)</p>
--	--

### Bonus 8: Math — Other

<p>You have a sack of three blue marbles and four black marbles. If you draw from the sack without replacement, what is the probability of the following occurring:</p>		
<b>A</b>	You draw two marbles and both are blue.	<b><u>1/7</u></b>
<b>B</b>	You draw three marbles and all three are blue.	<b><u>1/35</u></b>
<b>C</b>	You draw two marbles and one is blue and one is black.	<b><u>4/7</u></b>
<b>D</b>	You draw three marbles and they're all black.	<b><u>4/35</u></b>



**Tossup 9: Math — Other (Computational: 30 Seconds)**

The math club wants to select a committee of four people from its six members. How many different committees are possible?	<u>15</u>
--	-----------

**Bonus 9: Social Studies — Geography**

Identify these facts related to Scandinavia.		
<b>A</b>	Denmark's capital is this city, which features the Tivoli Gardens.	<u>Copenhagen</u>
<b>B</b>	The only island nation in Scandinavia is this one, with its capital at Reykjavík ( <i>RAYK-ee-uh-vik</i> ).	<u>Iceland</u>
<b>C</b>	The sea bordering Denmark is bounded by Norwegian Sea and the English Channel.	<u>North Sea</u>
<b>D</b>	This bridge connects Denmark and Sweden over a namesake strait.	<u>Oresund Bridge</u>



### Tossup 10: Science — Biology

Wilson's disease causes this organ to accumulate copper. It performs glycogenesis and produces bile, as well as breaking down bilirubin. It receives blood from the mesentery via the portal vein, and can suffer from cirrhosis as well as hepatitis. Consisting of four lobes, name this largest internal organ of the body.	<u>Liver</u>
--	--------------

### Bonus 10: Literature — Literature

In the days of yore, some authors were wont to use illicit substances. Answer the following about characters and authors using drugs.		
<b>A</b>	An impulsive binge drinker, this author of "Annabel Lee" and "Ligeia" drank until unconscious, was found in a gutter, and died soon after.	<u>Edgar Allan Poe</u>
<b>B</b>	This opium addict and killer of Basil Hallward drove Sybil Vane to suicide.	<u>Dorian Gray</u>
<b>C</b>	The mother of the Tyrone family is a morphine addict, while the patriarch is an alcoholic in this play.	<u>Long Day's Journey Into Night</u>
<b>D</b>	This work by Tom Wolfe focuses on the Merry Pranksters and details the transformation of promising middle-class youngsters into hippies.	The <u>Electric Kool-Aid Acid Test</u>



### Tossup 11: Fine Arts — Visual Art

<p>He, along with art critic Mario Amaya, was shot in his New York studio by radical feminist artist Valerie Solanas. He produced many noteworthy films, including many which draw from the gay underground culture such as Lonesome Cowboys. Founding a studio where he consorted with people dubbed his "Superstars", The Factory, as well as founding the magazine Interview, identify this Pop Artist responsible for such works as Marilyn Diptych and Campbell's Soup I.</p>	<p><b>Andy <u>Warhola</u></b></p>
--	-----------------------------------

### Bonus 11: Miscellaneous — Sports

<p>Given a brief description, identify the following sports terms.</p>		
<p><b>A</b></p>	<p>In baseball, this is credited to a hitter whose performance results in a score.</p>	<p><b><u>RBI</u></b> (<i>accept Run Batted In</i>)</p>
<p><b>B</b></p>	<p>This rhyming two-word phrase used in rugby refers to where a player goes for ten minutes after receiving a yellow card.</p>	<p><b><u>sin bin</u></b></p>
<p><b>C</b></p>	<p>This is the aviary term used to describe a hole on which a golfer scores three under par, also known as a double eagle.</p>	<p><b><u>albatross</u></b></p>
<p><b>D</b></p>	<p>In cricket, this term is used to describe when a ball hits a batsman's pads that would have hit the stumps and the batsman made no attempt to hit the ball.</p>	<p><b><u>lbw</u></b> (<i>accept leg before wicket</i>)</p>



### Tossup 12: Social Studies — Geography

<p>It was first given its current name by Andrew Waugh, though locals called it Chomolungma. Traversing it requires crossing the Khumbu Icefall, and many first reach the South Summit. First successfully ascended in 1953 by Tenzing Norgay and Sir Edmund Hillary, it is more than 29,000 feet above sea level, though some claim that Chimborazo and Mount Kea are actually taller. Name this mountain in the Himalayas, the tallest in the world.</p>	<p><b>Mount Everest</b></p>
--	-----------------------------

### Bonus 12: Math — Algebra

Fully factor the following polynomials.		
<b>A</b>	$x^2 + 2x - 8$ .	<i>(accept each answer in any order)</i> <b><u><math>(x - 2)(x + 4)</math></u></b>
<b>B</b>	$x^3 + x^2 + 2x + 2$ .	<b><u><math>(x^2 + 2)(x + 1)</math></u></b>
<b>C</b>	$2x^2 - 5x - 3$ .	<b><u><math>(x - 3)(2x + 1)</math></u></b>
<b>D</b>	$x^4 - 1$ .	<b><u><math>(x + 1)(x - 1)(x^2 + 1)</math></u></b>



### Tossup 13: Science — Physics

<p>Lagrangian points arise in the study of the three-body problem, which concerns bodies interacting via this concept, and cannot necessarily be solved depending on the orbits of each of the three bodies. Galileo produced perhaps the first modern studies of this, allegedly by dropping items off of the tower of Pisa, and its field strength is nine point eight newtons per kilogram. Give this type of force studied by Einstein and Newton that follows an inverse square law and causes attraction between bodies with mass.</p>	<p><b><u>gravity or gravitation</u> or word forms thereof</b></p>
--	---

### Bonus 13: Literature — Literature

<p>Name these Mark Twain tales.</p>		
<p><b>A</b></p>	<p>With Jim, the title character travels along the Mississippi, encountering the dauphin, the Grangerfords, and Tom Sawyer along the way.</p>	<p><b>The Adventures of <u>Huckleberry Finn</u></b></p>
<p><b>B</b></p>	<p>In this novel, Hank Morgan finds himself in medieval England soon to be burnt at the stake until he pretends to create a solar eclipse and is saved.</p>	<p><b>A <u>Connecticut Yankee in King Arthur's Court</u></b></p>
<p><b>C</b></p>	<p>Subtitled "A Tale of Today", this collaboration with Charles Dudley Warner gave its name to a period in American history.</p>	<p><b>The <u>Gilded Age</u></b></p>
<p><b>D</b></p>	<p>This detective story centers on learning the true identities of Tom Driscoll and Chambers who were switched at birth. One is a slave-owner and the other a slave.</p>	<p><b>The Tragedy of <u>Pudd'nhead Wilson</u></b></p>



### Tossup 14: Math — Algebra (Computational: 30 Seconds)

Find the determinant of the 3 by 3 matrix with first row equal to 0, 2, -1, second row -2, 0, 3, third row 1, -3, 0.	<u>0</u>
--	----------

### Bonus 14: Social Studies — World History

Identify the following about South American leaders. All of these questions feature the military, which shouldn't be surprising.		
<b>A</b>	According to reports issued by the government, this Chilean Socialist committed suicide during an attack on the Presidential Palace ordered by Augusto Pinochet.	<b>Salvador <u>Allende</u> Gossens</b>
<b>B</b>	Backed by the descamisados, or shirtless ones, this Argentinian vice president under General Edelmiro Farrell advocated justicialismo and the "Third Position."	<b><u>Juan Domingo Peron</u></b>
<b>C</b>	In 1968, Fernando Belaunde was forced to resign by the military, and Juan Alvarado would soon after form a junta in this country, which in more recent times has been led by Alberto Fujimori.	<b><u>Peru</u></b>
<b>D</b>	After getting shellacked in the Chaco War, David Toro and German ( <i>hair-mahn</i> ) Busch seized the government of this landlocked country, which is currently led by a former leader of a coca-growers' union.	<b><u>Bolivia</u></b>



### Tossup 15: Miscellaneous — Entertainment

<p>In a 2008 concert at Wembley Stadium, this band appeared on stage with members of Led Zeppelin. Almost all parts were played by the founder and vocalist on this group's self-titled debut album, which included songs like Big Me and This is a Call. Their 2006 live album Skin and Bones features the song Marigold, a track written while the vocalist was the drummer for Nirvana. Name this band fronted by Dave Grohl known for songs such as the Pretender, Learn to Fly, and Everlong.</p>	<p><b><u>Foo Fighters</u></b></p>
--	-----------------------------------

### Bonus 15: Science — Chemistry

Identify these portions of the periodic table.		
<b>A</b>	This right-most group of the periodic table includes neon and argon, and generally do not react with other elements.	<b><u>Noble gas</u></b>
<b>B</b>	This is the left-most group of the periodic table, which includes lithium and sodium.	<b><u>Alkali metals</u></b> ( <i>do not accept alkaline earth metals</i> )
<b>C</b>	Boron, silicon, germanium, and other elements which lie along a certain diagonal are known as these because they only have some of the properties of metals.	<b><u>Metalloids</u></b>
<b>D</b>	This is the term for the metals in columns 3 through 12 of the periodic table.	<b><u>Transition metals</u></b>



### Tossup 16: Social Studies — U.S. History

<p>He worked on Barry Goldwater's unsuccessful presidential bid, and during the decade prior, while clerking for Robert Jackson, he defended the doctrine of "Separate but Equal." In 1971, he replaced John Harlan, though it would be 15 years until he ascended to the position he is known for. Name this former Chief Justice of the Supreme Court, who was succeeded by John Roberts.</p>	<p><b>William Hubbs <u>Rehnquist</u></b></p>
---	--

### Bonus 16: Math — Geometry

<p>Answer the following related to the angles in regular polygons.</p>		
<b>A</b>	This is the sum of the internal angles in a regular pentagon.	<b><u>540</u></b>
<b>B</b>	This is the sum of the external angles in a regular 10-gon.	<b><u>360</u></b>
<b>C</b>	This is the measure of each internal angle in a regular octagon.	<b><u>135</u></b>
<b>D</b>	This is the measure of each internal angle in a regular 18-gon.	<b><u>160</u></b>



### Tossup 17: Literature — Mythology

<p>He once went on a fishing trip with the giant Hymir, a vacation that can only be described as "not relaxing." He managed to put a hole in the boat with his foot while struggling with his catch, and when he did finally pull it up, Hymir cut the line out of fear. At Ragnarok, he finally is able to defeat his earlier catch, the Midgard Serpent, but after his victory is only able to take nine steps before its poison kills him. Wielding the magical hammer Mjolnir, identify this Norse god of thunder.</p>	<p><b><u>Thor</u></b></p>
--	---------------------------

### Bonus 17: Social Studies — Geography

Identify these facts related to Africa.		
<b>A</b>	This fourth longest river of Africa flows along Botswana and Zimbabwe before entering Mozambique and going into the Indian Ocean.	<b><u>Zambezi River</u></b>
<b>B</b>	Speaking of Botswana, much of that country is covered by this desert, which is home to the Bushmen.	<b><u>Kalahari Desert</u></b>
<b>C</b>	This river, which flows through Lesotho, is the longest river in South Africa.	<b><u>Orange River</u></b>
<b>D</b>	Jbel Toubkal ( <i>jeh-BEL TOOB-kaul</i> ) is the highest point in these North African mountains that cover parts of Morocco, Algeria, and Tunisia.	<b><u>Atlas Mountains</u></b>



**Tossup 18: Math — General (Computational: 30 Seconds)**

Give the decimal equivalent of the hexadecimal value 1 1 A B. It may help to note that 16 cubed is 4096.	<b><u>4523</u></b>
--	--------------------

**Bonus 18: Fine Arts — Visual Art**

Identify these really tall buildings.		
<b>A</b>	Taipei 101 surpassed this Kuala Lumpur building as being the tallest in the world at one point.	<b><u>Petronas Twin Towers</u></b>
<b>B</b>	North America's tallest free standing structure, this Canadian tower is over 1800 feet tall.	<b><u>CN Tower</u></b>
<b>C</b>	Adrian Smith designed this still uncompleted building, though it's already the tallest in the world, in the United Arab Emirates.	<b><u>Burj Dubai</u></b>
<b>D</b>	This Chicago building in DuSable Park is currently on hold because of the financial crisis; architect Santiago Calatrava claims he is owed millions in costs.	<b><u>Chicago Spire</u></b>



### Tossup 19: Social Studies — U.S. History

<p>While this man was a commander in the Civil War, William McKinley served under him, and this man later helped McKinley in his campaign to be an Ohio congressman. His Vice President was William Wheeler, and fellow Ohioan James Garfield succeeded him in office. Losing the popular election by 250,000 votes, he only ascended to the presidency after agreeing to end Reconstruction. Name this man, who in the 1876 presidential election, defeated Samuel Tilden.</p>	<p><b>Rutherford Birchard <u>Hayes</u></b></p>
---	--

### Bonus 19: Science — Physics

Name these things associated with a British scientist:		
<b>A</b>	This man developed the calculus along with Leibniz, and is known for an eponymous Law of Universal Gravitation.	<b>Sir Isaac <u>Newton</u>, Fellow of the Royal Society of London</b>
<b>B</b>	One law due to that man is this rule in thermodynamics, a simple differential equation stating that the rate of temperature change of a body is proportional to the difference between the body's temperature and its environment's temperature.	<b>Newton's Law of <u>Cooling</u></b>
<b>C</b>	Also due to that man are these three laws. One of them is the law of inertia, another is often erroneously stated as $F = ma$ , and the last is usually written as "for every action there is an equal and opposite reaction".	<b>Newton's Three Laws of <u>Motion</u></b>
<b>D</b>	Those three laws are set out in this 1687 book of three volumes, which also contains the Law of Universal Gravitation and in which Kepler's laws are proven.	<b>Philosophiæ Naturalis <u>Principia Mathematica</u> (prompt on <u>Principia</u>)</b>



### Tossup 20: Fine Arts — Music

<p>It opens with a game of craps that Robbins wins, after which Crown kills Robin. The local cocaine dealer, Sportin' Life, offers to run away with Crown's woman to New York, but she wants to stay with a beggar, who then kills Crown. Taking place in Charleston, South Carolina on Catfish Row, name this all-African-American opera by George Gershwin about the titular cripple and prostitute.</p>	<p><b><u>Porgy and Bess</u></b></p>
--	-------------------------------------

### Bonus 20: Math — Geometry

<p>Find the areas of the following figures.</p>		
<b>A</b>	A square with diagonal of length 3.	<b><u>9/2</u></b>
<b>B</b>	An equilateral triangle with sides of length 1.	<b><u>root 3 / 4</u></b>
<b>C</b>	A square inscribed in a circle with area 4 pi.	<b><u>8</u></b>
<b>D</b>	A trapezoid with bases of length 8 and 10, and base angles of 45 degrees.	<b><u>9</u></b>



### Tossup A: Science — Biology

Produced in namesake glands above the kidneys, this hormone releases glucose into the bloodstream and causes skeletal muscle blood vessels to dilate. It often comes in an injectable "pen" to treat anaphylactic shock. Name this hormone essential for the stress reaction and "fight or flight" response.	<b><u>Adrenaline</u></b> ( <i>accept epinephrine</i> )
--	--

### Bonus A: Fine Arts — Music

Identify the following about works by Giuseppe Verdi.		
<b>A</b>	This opera, probably his most famous, is about an Ethiopian Princess.	<b><u>Aida</u></b>
<b>B</b>	This opera is about Violetta Valéry, "The Woman who Strayed".	<b><u>La Traviata</u></b>
<b>C</b>	This opera is about The Duke of Mantua, the titular Jester and his daughter, Gilda.	<b><u>Rigoletto</u></b>
<b>D</b>	This opera is about an ancient, titular Babylonian King.	<b><u>Nabucco</u></b>



### Tossup B: Literature — Literature

<p>Of the ten characters, all are related except the two black servants Addie and Cal and the rich Chicagoan who wants to start a cotton mill, William Marshall. At one point, brothers Oscar and Benjamin try to have Oscar's son Leo steal some bonds from the bank where he works. Those bonds happen to belong to their sister's sick husband Horace. Horace tries to leave all his property except for the bonds to his daughter Alexandra, but he dies first as his wife Regina refuses him medicine. Name this play, whose title originates from Song of Solomon, in which the Giddens and Hubbards fight over money, written by Lillian Hellman.</p>	<p><b>The <u>Little Foxes</u></b></p>
--	---------------------------------------

### Bonus B: Science — Chemistry

Identify these Nobel laureates in Chemistry.		
<b>A</b>	She won in 1911 for discovering radium and polonium by purifying pitchblende.	<b>Marie <u>Curie</u></b>
<b>B</b>	He won in 1918 for discovering a method to synthesize ammonia industrially.	<b>Fritz <u>Haber</u></b>
<b>C</b>	He won in 1944 for discovering nuclear fission.	<b>Otto <u>Hahn</u></b>
<b>D</b>	The 2008 Nobel Prize was awarded to three biochemists for discovering this colorful jellyfish protein used in research to visually tag organisms.	<b><u>GFP</u> (or <u>green fluorescent protein</u>)</b>



### Tossup C: Fine Arts — Visual Art

<p>The Disrobing of Christ and the Opening of the Fifth Seal were two of this man's works. A mannerist, many of his pictures incorporated byzantine elements foreign to western culture. One of his works depicts buildings of a Spanish resting on a hill, and is called View of Toledo. His most famous work features many angels hovering above the internment of a nobleman, called the Burial of the Count of Orgaz. Name this Spanish artist born on Crete.</p>	<p><b><u>El Greco</u></b> (accept <i>Domenikos Theotokopolous</i>)</p>
---	--

### Bonus C: Literature — Mythology

<p>From a description, identify the following mortal figures with deities for parents.</p>		
<p><b>A</b></p>	<p>This half-sister of Clytemnestra and daughter of Leda through Zeus was abducted by Theseus as a child.</p>	<p><b><u>Helen of Troy</u></b></p>
<p><b>B</b></p>	<p>This son of Venus and subject of a famous epic fell in love with Dido of Carthage, but continued his voyage and eventually married Lavinia.</p>	<p><b><u>Aeneas</u></b></p>
<p><b>C</b></p>	<p>According to one legend, Ethiopians are black because of the antics of this son of Helios, who was allowed to drive the chariot for a day, but didn't live to tell the tale.</p>	<p><b><u>Phaethon</u></b></p>
<p><b>D</b></p>	<p>Europa gave birth to three sons through Zeus, including this king of Crete and husband of Pasiphaë.</p>	<p><b><u>Minos</u></b></p>