

## Early Autumn Collegiate Novice 3 (Fall 2012), Packet #4

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Edited by Andrew Hart

### Tossups

1. "Solvated" forms of these entities cause solutions of alkali metals dissolved in liquid ammonia to appear blue. The Lyman series is generated by the relaxation of these particles. Radicals are molecules that either have an open shell of them or unpaired ones. Suspending droplets of oil in a field allowed Millikan to calculate their charge. Four quantum numbers describe their orbits about the nucleus. They are depicted as dots and lines in Lewis structures. For 10 points, name these subatomic particles with a negative charge.

ANSWER: **electrons** [prompt on **beta**]

2. This man earned the nickname "King Mob" after he opened a government building to the general public. This man's treasury secretary, Levi Woodbury, wrote the Specie Circular, which led to a financial crisis during his successor's only term. His first term was marred by the Nullification Crisis, which led to the resignation of his first Vice President, John C. Calhoun. In the aftermath of the Peggy Eaton affair, he was advised by the "Kitchen Cabinet." For 10 points, name this seventh U.S. president, a man from Tennessee nicknamed "Old Hickory."

ANSWER: Andrew **Jackson**

3. This painter designed, but his subordinate Giulio Romano probably painted, *The Fire in the Borgo*. An intricate bell and manuscript appear before the future Pope Clement VII, Luigi de Rossi, and Pope Leo X in this artist's portrait of those three. This student of Perugino created *La Disputa* for the Stanza Della Segnatura, one of the rooms he decorated in the Apostolic Palace. In another work, he showed Plato holding his *Timaeus* and talking to Aristotle. For 10 points, name this Renaissance master who painted *The School of Athens*.

ANSWER: **Raphael Sanzio** da Urbino [accept either underlined part]

4. This man discussed the exogamy present in twelve particular classification groups of the Australian aborigines in his essay "The Horror of Incest." This thinker described a syringe that was used to inject fluid into a woman named Irma. This author of *Totem and Taboo* formulated concepts that act according to the "reality" and "pleasure" principles. He introduced the ego and id and the Oedipus complex, and wrote *The Interpretation of Dreams*. For 10 points, name this Austrian psychologist, the father of psychoanalysis.

ANSWER: Sigmund **Freud** [or Sigismund Schlomo **Freud**]

5. The synaptonemal complex assembles during the leptotene stage, a phase in this process during which chromosomes condense. Its pachytene stage features chromosomal recombination. In females, this process results in three polar bodies and an oocyte. Monopolin is needed for segregation of homologous chromosomes during this process, which may result in non-disjunction if poorly executed during anaphase I or II. For 10 points, name this process of cell division that, unlike mitosis, results in the creation of four haploid gametes.

ANSWER: **meiosis** [accept **prophase I** before "polar bodies"; accept **oogenesis** before "oocytes"; accept **spermatogenesis** before "females"]

6. This building houses William Holman Hunt's painting that shows Christ knocking at a door, *The Light of the World*. The Chapel of All Souls and the Stone Gallery are in this building, the tallest seventeenth-century structure in the city that is home to the Shard and the Gherkin. Lord Rayleigh discovered the waves that propagate sound in this building's high whispering gallery, located below its dome. This building, which sits atop Ludgate Hill, was reconstructed after a fire in 1666. For 10 points, name this Christopher Wren-designed cathedral in London.

ANSWER: **St. Paul's** Cathedral

7. Launce is blamed for the actions of one of these animals named Crab in *Two Gentlemen of Verona*. The Pirate preaches to a group of these animals in *Tortilla Flat*. Grey Beaver comes across an animal of this type, the son of Kiche and One Eye, in a novel whose characters include Weedon Scott and Beauty Smith. In another novel, an animal of this type befriends Thornton and joins a pack of wolves. For 10 points, name this type of animal portrayed in *The Call of the Wild* and *White Fang* by Jack London.

ANSWER: **dog** [accept equivalents; accept **wolfdog**; do not accept "wolf"]

8. Agents from this country killed a Moroccan waiter in Norway in the Lillehammer Affair. This country's Law of Return supports the act of "Aliyah." The Dimona facility houses the nuclear research of this country, which maintains a policy of "nuclear ambiguity." This country's war of independence occurred in 1948 and is known as al-Nakba or "The Catastrophe" to its losers. This victor in the Six-Day War was first led by Prime Minister David Ben-Gurion. For 10 points, name this country whose current Prime Minister is Benjamin Netanyahu.

ANSWER: State of **Israel** [or Medinat **Yisrael**; or Dawlat **Israil**]

9. This rapper notes that he's "twenty-five sitting on twenty-five mil" in a song in which Lil Wayne quotes the Sir Mix-A-Lot line "oh my God Becky look at her butt." Another song, in which this rapper asks a singer to "say you're ready when all the baggage just ain't as heavy," contains the line "if you let me, here's what I'll do: I'll take care of you." This artist, who collaborated with Rihanna on "Take Care," sang "we could do it real big, bigger than you ever done it" on a hit from his album *So Far Gone*. For 10 points, name this Canadian rapper behind "Best I Ever Had."

ANSWER: **Drake** [or Aubrey Drake **Graham**; accept **Drizzy** before mentioned]

10. In this novel, Lise dies in childbirth and her sister-in-law, Mary, raises the child. When Helene's husband discovers her affair, he challenges her seducer to a duel in this novel, which opens at a party thrown by Anna Scherer. A woman in this novel agrees to a one-year engagement with Andrew, but later plans to elope with Anatole. That woman in this novel is Natasha Rostova, who eventually marries a man who believes it is his duty to kill Napoleon, Pierre Bezukov. For 10 points, name this novel by Leo Tolstoy.

ANSWER: **War and Peace** [or **Voyna i Mir**]

11. This writer described himself and other poets as "the unacknowledged legislators of the world" in an essay. In one of his poems, he wrote, "If Winter Comes, can Spring be far behind?" This author of the essay "A Defence of Poetry" wrote the line "hail to thee, blithe spirit." He described "two vast and trunkless legs of stone" in a poem that proclaims, "Look on my works, ye Mighty, and despair!" For 10 points, name this English Romantic poet who wrote "Ode to the West Wind," "To a Skylark," and the sonnet "Ozymandias."

ANSWER: Percy Bysshe **Shelley**

12. A formula that generates these numbers subtracts one exponential term from another and divides the result by root five. Binet's formula gives a closed-form expression for these numbers, which were first conceptualized to calculate the number of rabbits produced each month given an initial pair. Considered successively, the limit of the ratio of these numbers is equal to phi, the golden ratio. For 10 points, name these numbers formed by summing the previous two terms in a namesake sequence that starts 1, 1, 2, 3, 5.

ANSWER: **Fibonacci** numbers

13. In the second part of one work, this thinker states that people own themselves, and that they come to own other things by mixing their labor with those things. In another work, this thinker makes a distinction between primary qualities, like shape and motion, and secondary qualities, like color. In that work, this thinker discusses the idea of the mind as a blank slate or *tabula rasa*. For 10 points, name this British empiricist and natural-law theorist who wrote *An Essay Concerning Human Understanding* and *Two Treatises of Government*.

ANSWER: John **Locke**

14. One work inspired by these entities contains both "Hunting" and "Drinking" choruses. One work titled after these entities was a set of twelve pieces for solo piano by Tchaikovsky, which includes a "Barcarolle" and a "Troika." Haydn wrote an oratorio on these entities after he completed his *Creation*. A set of four violin concertos based on these entities was published in *The Contest Between Harmony and Invention*. For 10 points, name these subdivisions of the year, the subject of four violin concertos by Antonio Vivaldi.

ANSWER: the **seasons** [or *The Four Seasons*, or *Die Jahreszeiten*, or *Le quattro stagioni*]

15. The average value of this quantity is related to the temperature of a substance by the equipartition theorem. In thermodynamics, the change in this quantity is equal to the heat added minus the work done by the system. Its value for a photon is Planck's constant times frequency. The total form of this quantity is represented by the Hamiltonian operator. One type of this quantity can be found on earth by taking the mass of the object times little-g times the height. For 10 points, name this quantity, the ability of a system to do work, which can be potential or kinetic.

ANSWER: **energy** [accept **kinetic energy**; or **potential energy**; or **internal energy**]

16. The soothsayer Thrasyllus claimed that this man had "no more chance of becoming an emperor than riding a horse across the Bay of Baiae," after which this man built a pontoon bridge in order to accomplish that feat. He allegedly prostituted his sisters Drusilla and Agrippina the Younger. His habit of marching in a soldier's uniform as a child led to his nickname of "little boots." For 10 points, name this possibly insane predecessor to Claudius and successor of Tiberius who apocryphally planned to make his horse Incitatus a priest and consul.

ANSWER: **Caligula** [or **Gaius** Julius Caesar Augustus Germanicus]

17. This phenomenon was stored in a fennel stalk by a figure who tricked Zeus into accepting bones and fat. During Ragnarok, it will be thrown across the world by Surt. During the Exodus, God appears as a pillar of this substance, which was the form in which the Holy Spirit manifested on Pentecost. The river Phlegethon is composed of this substance, the gift of which Zeus punished by chaining a Titan to a mountain and having an eagle eat his liver every day. For 10 points, name this phenomenon that Prometheus gave to man.

ANSWER: **fire** [accept all synonyms such as **flames**]

18. One character in this play, who laments the loss of her family's ancestral home because of "epic fornications," was married to Allen Grey, who committed suicide after his homosexuality was revealed. Harold Mitchell is the suitor of a woman in this play who hails from Laurel, Mississippi. A character in this play is raped and institutionalized, after which she claims to have "always depended on the kindness of strangers." For 10 points, Blanche DuBois and Stella and Stanley Kowalski appear in what Tennessee Williams play?

ANSWER: *A Streetcar Named Desire*

19. On this day alone, the Kohen Gadol wore white linen robes while pronouncing the Tetragrammaton. Its worship service ends with the Ne'ila and involves reading the Book of Jonah. This day, which features five prayers beginning with the Kol Nidre, takes place on the Tenth of Tishrei, ending the High Holy Days. It occurs five days before Sukkot and nine days after Rosh Hashanah. For 10 points, worshipers seek God's forgiveness while abstaining and fasting on what Jewish Day of Atonement?

ANSWER: Yom Kippur [or Day of Atonement before mentioned]

20. The commander of a fort in this location once responded to a demand for its surrender by telling William Phips that his only reply would come from the mouths of his cannons. Richard Montgomery died during an invasion of this location, which was also the location of the Battle of the Plains of Abraham, where generals Montcalm and Wolfe died. The kidnappings of James Cross and Pierre Laporte in 1970 sparked the October Crisis in this province. For 10 points, name this predominantly French-speaking Canadian province that includes Montreal.

ANSWER: Quebec [accept Quebec City or Ville de Quebec]

TB-21. In 1962, this man asked "why does Rice play Texas?" to illustrate his point that people choose to do things "not because they are easy, but because they are hard." Henry Cabot Lodge Jr. blamed "those damned tea parties" for his defeat to this man in a 1952 senatorial election. This man gave the "Ich bin ein Berliner" speech and asked the U.S. to commit to landing a man on the Moon. For 10 points, name this man whose inaugural address in 1961 contained the line, "Ask not what your country can do for you, but what you can do for your country."

ANSWER: John Fitzgerald Kennedy [or JFK; or Jack Kennedy]

TB-22. A pool of mercury in a basement provided a nearly frictionless and vibration-free environment for rotating this experiment's apparatus. This experiment found a fringe shift of nearly zero, instead of the expected four-tenths of a fringe. The interference pattern discrepancy indicated that the speed of light did not vary with direction in this experiment, which used an interferometer named for one of its experimenters. For 10 points, name this experiment in which two scientists disproved the existence of luminiferous ether.

ANSWER: Michelson-Morley experiment [accept names in either order]

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### Bonuses

1. Richard Muehlfield inspired this composer to write his *Clarinet Trio* and *Clarinet Quintet*. For 10 points each:

[10] Name this German composer of four symphonies, the *Academic Festival Overture*, a *Horn Trio*, and a lullaby.

ANSWER: Johannes **Brahms**

[10] Brahms wrote a “German” one of these works opening with text from the Beatitudes. It contains such sections as “Denn alles fleisch, es ist wie Gras.”

ANSWER: **requiem** mass [or *A German Requiem*; or *Ein deutsches Requiem*]

[10] Brahms’s first attempt at a symphony was turned into one of these works. Mozart wrote twenty-seven of these works, while Beethoven wrote five, including his “Emperor.”

ANSWER: **piano concertos** [or **piano concerti**; prompt on **concerto**; prompt on **concerti**]

2. This woman wrote about social problems in her adopted country, China. For 10 points each:

[10] Name this author of *The Good Earth*, *Satan Never Sleeps*, and *A House Divided*.

ANSWER: Pearl S. **Buck** [or Pearl **Sydenstricker** Buck]

[10] This is Pearl S. Buck’s country of birth, also the adopted country of authors of Chinese heritage like Amy Tan and Maxine Hong Kingston.

ANSWER: the **United States** of America [or **U.S.**; or **U.S.A.**; accept equivalents; prompt on **America**]

[10] This protagonist of Buck’s *The Good Earth* marries O-Lan at the opening of the novel.

ANSWER: **Wang Lung** [accept either]

3. This god was beheaded by his father after Parvati told him not to let anyone inside the house. For 10 points each:

[10] Name this son of Parvati and Shiva, an elephant-headed god of wisdom.

ANSWER: [Lord] **Ganesh** [or **Ganapati**; or **Vinayaka**; or **Pillaiyar**; or **Vighnesha**; or **Vighneshvara**]

[10] Ganesh typically has between two and sixteen of these body parts, of which Vishnu typically has four.

ANSWER: **arms**

[10] In the *Benne Alankara* ritual, Hindus smear statues of Ganesh with this food item, which is called *ghee* in its clarified form.

ANSWER: **butter**

4. Except in the case of Veblen and Giffen goods, increasing price causes this quantity to decrease, according to this quantity’s namesake law. For 10 points each:

[10] Name this economic quantity that is often contrasted with supply.

ANSWER: **demand** [accept **aggregate demand**]

[10] For two goods with this relationship, lowering the price of either increases demand for both goods. An example is bicycles and helmets, which are often used together.

ANSWER: **complementary** goods [accept word forms]

[10] Complementary goods have a negative value for the “cross” variety of this economic concept. This concept refers to the rate at which one economic variable changes with respect to another.

ANSWER: **elasticity** [or cross-price **elasticity** of demand]

5. The class *Asteroidea* contains this group of animals, the only kind within their phylum to have pigment spot ocelli. For 10 points each:

[10] Name this group of marine invertebrates, whose ambulacral grooves are found on the oral side of their five or more arms.

ANSWER: **starfish** [or sea **stars**; \*note\* prompt on, but do not say, *Echinodermata* or **echinoderms**]

[10] The madreporite is the gateway to the water vascular system in this phylum with derived radial symmetry. It includes sea stars, sea urchins, and sea cucumbers.

ANSWER: ***Echinodermata*** [or **echinoderms**]

[10] Sea star arms contain the “tube” kind of this feature, which consist of ampullae and podia. A similarly named feature in tetrapods contains the tarsal bones.

ANSWER: **foot** [or **feet**; accept **tube foot/feet**]

6. This case’s outcome was likely impacted by 1953 death of Chief Justice Fred Vinson. For 10 points each:

[10] Name this case in which the Warren Court struck down the “separate but equal” doctrine of *Plessy v. Ferguson*.

ANSWER: ***Brown v. Board of Education of Topeka, Kansas***

[10] This Chief Counsel for the NAACP successfully argued for the plaintiffs in *Brown*. He would later serve as the Supreme Court’s first African-American justice from 1967 to ‘91.

ANSWER: Thurgood **Marshall**

[10] In 1950 the Supreme Court heard *Sweatt v. Painter*, a similar case to *Brown* that originated in this state. This year, the Court will decide an affirmative-action case stemming from this state’s Top Ten Percent plan.

ANSWER: **Texas** [accept **University of Texas**, Austin; prompt on **UT**]

7. One of these conveyances is being dragged to be broken up in *The Fighting Temeraire*. For 10 points each:

[10] Name this type of vehicle from which slaves are thrown in a painting subtitled “Typhoon Coming On.”

ANSWER: **ships** [or equivalents like **boats** or **sea vessels**; accept *The **Slave Ship***]

[10] This English artist painted *The Fighting Temeraire* and *The Slave Ship, Typhoon Coming On* in addition to *Snow Storm: Hannibal and his Army Crossing the Alps*.

ANSWER: J.M.W. **Turner** [or Joseph Mallord William **Turner**]

[10] Turner’s *Rain, Steam, and Speed* features one of these vehicles travelling toward the viewer with a small hare ahead of it. Rene Magritte’s *Time Transfixed* depicts one of them emerging from a fireplace.

ANSWER: **trains** [or **locomotives**]

8. Materials with this property have a relative magnetic permeability of less than one. For 10 points each:

[10] Name this type of magnetism, which causes many nonmetals to float in equilibrium inside a magnetic field.

ANSWER: **diamagnetism** [accept word forms]

[10] Materials exhibiting this type of magnetism include nickel, cobalt, and its namesake metal.

ANSWER: **ferromagnetism** [accept word forms]

[10] The temperature above which a ferromagnetic material becomes paramagnetic is named after this French physicist, who, with his wife, also names a unit of radioactivity.

ANSWER: Pierre **Curie**

9. The tank debuted at this battle, which included campaigns at Albert and Bazentin Ridge. For 10 points each:  
[10] Name this battle in which over a million casualties were incurred as two sides sparred over territory near the namesake French river from July to November of 1916.

ANSWER: Battle of the **Somme** [or **Somme** Offensive]

[10] The Somme was one battle during this war, which concluded with the Peace of Versailles.

ANSWER: **World War I** [or the **Great War**; or **First World War**; or **WWI**; prompt on **World War**]

[10] At the Paris Peace Conference negotiations, this member of the “Big Four” represented Italy.

ANSWER: Vittorio [Emanuele] **Orlando**

10. These objects produce a boundary called an event horizon. For 10 points each:

[10] Name these regions in space-time that have such a strong gravity field that not even light can escape them.

ANSWER: **black holes**

[10] This theorem about black holes states that external observers outside the event horizon are only able to measure the mass, electric charge, and angular momentum of a given black hole, and no other information about it.

ANSWER: **no-hair** theorem

[10] It is predicted that black holes lose both mass and energy by an evaporative process involving a type of black-body radiation named after this wheelchair-bound British physicist.

ANSWER: Stephen [William] **Hawking** [accept **Hawking radiation**]

11. An example of one of these logical constructs was formulated by Aristotle and states that there must be an unmoved mover. For 10 points each:

[10] Name these types of demonstrations, one of which is the ontological argument.

ANSWER: logical **proofs of God**'s existence [accept equivalents such as **arguments for God**, etc.]

[10] This Catholic saint formulated five arguments for the existence of God in his *Summa Theologica*.

ANSWER: St. Thomas **Aquinas** [or Thomas of **Aquin**; or Thomas **Aquino**; prompt on **Thomas**]

[10] This evolutionary biologist and new atheist argued that all of the so-called proofs of God's existence are fallacious in his book *The God Delusion*.

ANSWER: [Clinton] Richard **Dawkins**

12. This author fictionalized Neruda as The Poet and her uncle as The President. For 10 points each:

[10] Name this author who created the Trueba family in her novel *The House of the Spirits*.

ANSWER: Isabel **Allende** [Llona]

[10] Allende is a writer in this genre, in which fantastical elements of a story are intermixed with realistic depictions of the world. Alejo Carpentier coined the Spanish term “real maravilloso” to describe this genre.

ANSWER: **magical realism** [accept word forms]

[10] Carpentier grew up in this country, the home of José Martí and the setting of *The Old Man and the Sea*.

ANSWER: Republic of **Cuba** [or República de **Cuba**]

13. This group sparked the victory of Victor Emmanuel II over Francis II of the Two Sicilies. For 10 points each:

[10] Name this Italian *Risorgimento* group, also known as the Thousand, which took its name from its uniformly colored clothing.

ANSWER: **Redshirts** [or **Red Coats**; or **Camicie Rosse**; or **Giubbe Rosse**]

[10] The Redshirts were led by this Italian general who also fought in the Uruguayan Civil War.

ANSWER: Giuseppe **Garibaldi**

[10] This political organization, founded by Giuseppe Mazzini in 1831, chafed for Italian unification.

ANSWER: **Young Italy** [or La **Giovine Italia**]

14. For 10 points each, name some things about an Italian Renaissance humanist.

[10] This man wrote *Il Canzoniere*, a collection of 366 poems, and many love poems to a woman named Laura.

ANSWER: **Petrarch** [or Francesco **Petrarca**]

[10] One type of these fourteen-line poems is named after Petrarch. Shakespeare and Edmund Spenser also frequently wrote in this form.

ANSWER: **sonnets**

[10] Several of Petrarch's works mention this disease, which is also the reason that the characters in Boccaccio's *Decameron* flee Florence.

ANSWER: **Black Death** [or **Black Plague**; or **Bubonic** Plague; prompt on **Plague**]

15. Popular belief holds that this man was pharaoh during the time of Exodus. For 10 points each:

[10] Name this "Great" long-reigning pharaoh who constructed the temples and colossal statues at Abu Simbel.

ANSWER: **Ramses** the Great [or **Ramses II**; or **Ramesses** the Great/II]

[10] Ramses fought against Muwatallis in this battle on the Orontes River in present-day Syria. Many chariots were involved and Ramses lost many men, though both sides claimed victory.

ANSWER: Battle of **Kadesh**

[10] The Battle of Kadesh was fought against this empire centered in Anatolia with their capital at Hattusa. Their sudden fall is thought to be due to an invasion by the Sea People.

ANSWER: **Hittites**

16. One section of this work of literature tells the story of Saint Cecilia's marriage, in which she converts her husband Valerian. For 10 points each:

[10] Name this work that opens with pilgrims sitting at the Tabard Inn in Southwark.

ANSWER: *The **Canterbury Tales***

[10] This tale from *The Canterbury Tales* tells the story of two cousins who are imprisoned by Theseus and fight over the love of the beautiful Emily.

ANSWER: *The **Knight's Tale***

[10] This English poet authored *The Book of the Duchess*, *Troilus and Criseyde*, and *The Canterbury Tales*.

ANSWER: Geoffrey **Chaucer**

17. Reacting a certain sulfonic acid with sodium hydroxide yields phenol. For 10 points each:

[10] Phenol is an example of this class of molecules that contain one or more hydroxyl group. Other examples include ethanol and methanol.

ANSWER: **alcohols**

[10] Phenol is a derivative of this compound, the simplest aromatic hydrocarbon, which has formula C<sub>6</sub>H<sub>6</sub>.

ANSWER: **benzene**

[10] Phenol can also be produced by oxidation of toluene, a benzene derivative that contains this alkyl group.

ANSWER: **methyl** group



18. Florence Owens Thompson is the subject of this work. For 10 points each:

[10] Name this Dorothea Lange depiction of a Great Depression-era woman and her two children.

ANSWER: **Migrant Mother**

[10] Dorothea Lange is an artist who worked in this medium, which was also used by Ansel Adams, who used it to depict Yosemite Valley.

ANSWER: **photography** [accept word forms; or **photos**; prompt on **taking pictures** or **using cameras**]

[10] Lange took a set of photos at Manzanar, one of these facilities in California. One iconic photograph from the collection shows a Japanese-American grandfather with his grandson on his shoulders at one of these places.

ANSWER: Japanese **internment** camps [or **relocation** camps; or **relocation** centers]

19. After this god's mother Semele died, his father carried him to term within his thigh. For 10 points each:

[10] Name this Greek god of wine and theater.

ANSWER: **Dionysus** [or **Bacchus**]

[10] This father of Dionysus, the chief Greek deity, inadvertently killed Semele with lightning when she asked to see his true form.

ANSWER: **Zeus**

[10] Zeus handed Dionysus over to this god so he could find Dionysus a home. In the *Odyssey*, this god advised Odysseus to use the herb moly to resist Circe's potion.

ANSWER: **Hermes**

20. This country, the third-largest democracy, has the largest Muslim population in the world. For 10 points each:

[10] Name this country that, in 2002, recognized the independence of East Timor.

ANSWER: Republic of **Indonesia** [or Republik **Indonesia**]

[10] Indonesia's largest ethnic group resides on this island, the most populous of Indonesia's islands and home to its capital of Jakarta.

ANSWER: **Java** [or **Jawa**]

[10] In addition to East Timor and Malaysia, Indonesia shares a land border with this country, which gained its independence from Australia in 1975 and has its capital at Port Moresby.

ANSWER: Independent State of **Papua New Guinea** [or **Papuanigini**; do not accept "New Guinea"]

Extra. This was the way in which Anwar al-Awlaki, a U.S. citizen living in Yemen, was killed. For 10 points each:

[10] Name these controversial missile attacks, which have increased sharply under President Obama, in which targets are attacked using unmanned airplanes.

ANSWER: **drone strikes** [accept equivalents including the word **drone**; prompt on **targeted killing**]

[10] Drone strikes are a controversial tactic employed against this terrorist organization, whose former leader Osama bin Laden was killed in May 2011.

ANSWER: al-**Qaeda** [or The **Base**]

[10] This man, the current leader of al-Qaeda, once led the Egyptian Islamic Jihad. In June, the military called him the only significant al-Qaeda leader left.

ANSWER: Ayman al-**Zawahiri**