



2008-09 TOMCAT
Packet 1

Tossups

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10-point Tossups

1. Which author of a novel in which Adam Pollo is arrested while living in a deserted villa, *The Interrogation*, won the 2008 Nobel Prize in Literature?

answer: J(ean) M(arie) G(ustave) Le Clézio

<230139>

2. John Hetrick patented what device that produces a large quantity of nitrogen gas in 1/20th of a second when rapid deceleration is detected by a car?

answer: airbags (or air cushion restraint system; prompt on "supplementary restraint system" or "SRS")

<215887>

3. China created Treaty Ports and signed the Unequal Treaties after losing what wars fought over the smuggling from British India of a namesake narcotic?

answer: Opium Wars (prompt on "Anglo-Chinese Wars"; prompt on "opium" until "wars")

<223876>

4. What author who wrote about the marriage of Charlotte Stant and Adam Verver in *The Golden Bowl* also wrote *The Wings of the Dove* and *Daisy Miller*?

answer: Henry James

<196076>

5. What former prime minister was succeeded as PPP leader by Asif Zardari [AH-sif zar-DAH-ree] and her son Bilawal [bee-LAH-wahl] after her 2007 assassination in Rawalpindi [rah-wahl-PIN-dee], Pakistan?

answer: Benazir Bhutto [BEH-nuh-zeer BOO-toh]

<217534>

6. Which law of mechanics says the rate of change of an object's momentum equals the net force on it, or, force equals mass times acceleration?

answer: Newton's second law of motion (prompt on "Newton's law(s)")

<215593>

7. What kind of geographical feature are the Phlegethon [FLEG-eh-thon], Cocytus [koh-SYE-tus], Lethe [LEETH-ee], Acheron [AK-ur-ahn], and Styx ["sticks"], which ringed the underworld in Greek mythology?

answer: rivers

<208426>

8. Bien Hoa and Ton Son Nhut airbases were targets of what offensive that also hit Hue [way] and Khe Sanh in holiday attacks by North Vietnamese in early 1968?

answer: Tet offensive (prompt on "Vietnam War")

<201904>

9. As functions from reals to reals, e to the x is, but x squared is not, what kind of function that never maps two different inputs to the same output?

answer: one-to-one function or injection or injective function (do not accept "bijection" or "bijective function")

<223531>

10. Al Haig and Diane Sawyer were suspected to be, but Mark Felt actually was, what source for Woodward and Bernstein regarding the Watergate scandal?

answer: Deep Throat

<217499>

15-point Tossups

11. Which deity who sacrificed one of his eyes to Mimir [MEE-meer] so he could drink from the well of knowledge was also the leader of the Norse pantheon?

answer: Odin (or Woden or Wotan)

<182680>

12. What painter of *Juan de Pareja* [pah-RAY-hah] served in the court of Philip IV of Spain, as can be seen in his depiction of the infanta Margarita in *Las Meninas* [lahss may-NEE-nahss]?

answer: Diego (Rodríguez de Silva y) Velázquez [vay-LASS-kez]

<215020>

13. Pencil and paper ready. What percentage of a population is expected to be homozygous [hoh-muh-ZYE-guss] dominant if 30% of its alleles [uh-LEELZ] for a gene are dominant?

answer: 9 percent or 9/100 or 0.09 [30 percent x 30 percent = 9 percent]

<216373>

14. Cleisthenes [KLYCE-thuh-neeZ] established what system in which votes written on pieces of pottery could exile a disliked politician for ten years from Athens?

answer: ostracism or ostracization (accept word forms; prompt on "exile" early)

<216313>

15. What book relating "travels into several remote nations of the world" features the flying island Laputa [luh-POO-tuh] and was written by Jonathan Swift about Lemuel?

answer: Gulliver's Travels

<215893>

16. Kenneth Lewis is the chairman and CEO of what North Carolina-based bank that in recent months has bought both Countrywide Financial and Merrill Lynch?

answer: Bank of America Corporation (prompt on "BoA")

<221857>

17. Carmelo Anthony and Michael Phelps were raised in what city home to M&T Bank Stadium and Camden Yards, where the Ravens and the Orioles play?

answer: Baltimore, Maryland

<217887>

18. Pencil and paper ready. If a hot stock has 50% annual growth, then shares bought for eight hundred dollars two years ago would have what value today?

answer: \$1,800.00 [$\$800 \times 1.5 \times 1.5 = \$1,200 \times 1.5$]

<220266>

19. The Winchester Mystery House is in what city, California's third largest and its first capital, that is south of San Francisco Bay in Silicon Valley?

answer: San José

<205332>

20. What author of *All Too Human: A Political Education* and former senior adviser to Bill Clinton hosts the ABC Sunday morning talk program *This Week*?

answer: George (Robert) Stephanopoulos [STEH-fuh-NAH-puh-luss]

<209410>

20-point Tossups

21. The tallest monument in the U.S. is which stainless steel catenary [KAT-uh-nair-ee] with a triangular cross-section that was designed by Eero Saarinen [AIR-oh SAR-uh-nun] for St. Louis?
answer: Gateway Arch (or Gateway to the West; prompt on “Jefferson National Expansion Memorial”)
<219164>
22. What device rotates clockwise at 11 degrees per hour – a rate due to its latitude – as it swings in the Paris Panthéon marking the Earth's rotation?
answer: Foucault's [foo-koh'z] pendulum (prompt on “pendulum”)
<205026>
23. What king signed the Treaty of the Pyrenees, fled Paris during the Fronde [frahnd], and revoked the Edict of Nantes [nahnt] during his time as France's Sun King?
answer: Louis XIV of France (or Louis XIV Bourbon or Louis-Dieudonne or Louis the Great or Louis-God-Given; prompt on “Sun King”)
<219288>
24. Walter Younger and his sister Beneatha [buh-NEE-thuh] appear in what Lorraine Hansberry drama whose title was taken from the poem “Harlem” by Langston Hughes?
answer: A Raisin in the Sun
<214008>
25. The 1939 “Big Book” and the Twelve Traditions are the basis of what group founded by Dr. Bob Smith and “Bill W.” to try to help problem drinkers?
answer: Alcoholics Anonymous or AA (do not accept “Al-Anon”)
<221860>
26. Pencil and paper ready. What is the area of a square centered on the origin if the points (5,0) [“five comma zero”] and (-5, 0) [“negative five comma zero”] are two of the four vertices?
answer: 50 [Each side has length 5 radical 2; alternatively, the diagonal is 5 - (-5) = 10 and the area of a rhombus is $d_1d_2/2 = 10^2/2 = 50$.]
<220274>
27. What coastal city overlooked by Table Mountain serves as the legislative capital of South Africa and is named for a nearby headland “of Good Hope”?
answer: Cape Town (do not prompt on “Cape” or “Cape of Good Hope”)
<209328>
28. Which president saw Sherman Adams resign, John Foster Dulles die, and the end of the Korean War, having earlier served as Supreme Allied Commander?
answer: Dwight (David) Eisenhower
<212679>
29. Katharine Hepburn, Bob Dylan, and Elizabeth I [“the first”] have all been roles for what star, who also played Colonel-Doctor Irina Spalko and elf queen Galadriel [guh-LAD-ree-ul]?
answer: (Catherine Élise) Cate Blanchett
<216470>
30. Acetylene has two of what type of bond that lie at right angles to one another and are formed by the overlap of *p* orbitals in double and triple bonds?
answer: pi bonds (accept pi orbitals)
<216971>

25-point Tossups

31. What winner of the 1982 Nobel Prize for Literature wrote *Love in the Time of Cholera* and *One Hundred Years of Solitude* about his native Colombia?
answer: Gabriel (José de la Concordia) García Márquez (prompt on partial names)
<217895>
32. The 1521 Battle of Mactan saw the death of what man whose carrack *Victoria*, under Juan Sebastián Elcano, became the first to circumnavigate the globe?
answer: Ferdinand Magellan (or Fernão de Magalhães or Fernando de Magallanes)
<203941>
33. A salpingectomy [SAL-pin-JEK-tuh-mee] is the removal of what paired, ciliated structures that connect mammalian ovaries to the uterus with tubes also called “oviducts”?
answer: Fallopian tubes (accept oviducts before “ovaries”; prompt on “salpinx” or “salpinges”)
<214231>

34. What author who began the tradition of having a second actor in plays wrote *The Libation Bearers*, *Seven Against Thebes*, and the *Oresteia* [or-eh-STEE-uh]?
 answer: Aeschylus [ESS-kuh-luss] (or Aischylos) <194720>
35. What paramount chief of Fiji and Lord of Mann lived in Clarence House after marrying her second cousin Philip but before becoming queen of England?
 answer: Queen Elizabeth II (Alexandra Mary) (Mountbatten-Windsor) <204962>
36. Pencil and paper ready. How many footnotes are in a 270-page article if two-thirds of the pages have one footnote each and the rest have two each?
 answer: 360 footnotes [(270 x 2/3) x 1 + (270 x 1/3) x 2 = 180 x 1 + 90 x 2 = 360] <215222>
37. In 2008 what team with the National League's best record was swept in the playoffs by the Dodgers, continuing its century-long World Series drought?
 answer: Chicago Cubs (prompt for "Chicago") <222259>
38. What colleague of Dolores Huerta fought the Bracero Program, attacked pesticide use, boycotted California grapes, and founded the United Farm Workers?
 answer: César (Estrada) Chávez [SAY-zar CHAH-vuss] <201916>
39. What author of the 1833 *Common Version* of the Bible also wrote *The Blue-Backed Speller* and created "American Dictionary" bought by George Merriam?
 answer: Noah Webster <221387>
40. The *sonata da chiesa* [kee-AY-sah] gave rise to which orchestral form, typically in four movements, of which Tchaikovsky wrote six and Beethoven wrote nine?
 answer: symphony or symphonies <222153>

Tiebreaker Tossups

41. The Church of Santa Maria Novella is in what city on the Arno River that boasts the Ponte Vecchio [POHN-tay VEH-kee-oh], Pitti Palace, Uffizi [oo-FEET-zee], and birth of the Renaissance?
 answer: Florence (or Firenze) <201189>
42. "Some one had blunder'd" as soldiers were "storm'd at with shot and shell" in what poem about a cavalry unit during the Crimean War by Alfred Tennyson?
 answer: The Charge of the Light Brigade <196165>
43. Who suggested that football was merely a way to show off one's leisure when he discussed conspicuous consumption in *The Theory of the Leisure Class*?
 answer: Thorstein (Bunde) Veblen <213998>

Sudden Death Tossups

44. "Conformational," "constitutional," and "geometric" are forms of what property in which two molecules have the same formula but different structures?
 answer: isomers or isomerism (accept conformational isomers, etc.) <226172>