

1. "Every even number is the sum of two prime numbers." For ten points, by what name do we know this statement, the proof of which remains one of the knottiest problems in mathematics? (Goldbach's Conjecture)
2. This German composer is famed for his song cycles based on poems by Heine and others. He also wrote piano pieces such as Kinderszenen and Symphonic Etudes. For ten points, who was this composer whose foremost interpreter was his wife, Clara? (Robert Schumann)
3. A headline might read, "Supreme Court declares Missouri Compromise unconstitutional". For ten points, to what 1857 decision would that banner refer? (Dred Scott decision)
4. Abstractionism was worked to its logical conclusion in this painter's works. His style evolved from early landscapes to his later style of black lines on white backgrounds occasionally relieved by primary colors. For ten points, name this 20th century Dutch artist (Piet Mondrian)
5. We associate the kite with Ben Franklin, the telescope with Galileo and the microscope with Leeuwenhoek. For ten points, with what scientist do we associate the oil drop? (Robert Millikan)
6. This type of behavior occurs when an animal or plant orients toward a stimulus, such as a chemical, light or gravity. For ten points, what is this orientation called? (Tropism or Ataxis)
7. It was first held in 1903, and has been won only once by an American. For ten points, identify this grueling 3100 mile 21 day race. (Tour de France)
8. "It is not the consciousness of men that determines their being, but on the contrary, their social being that determines their consciousness." This is a quote from the Preface to Critique of Political Economy written between 1857 and 1867 by, for ten points, what German-born philosopher and economist? (Karl Marx)
9. In a process known to the ancient Athenians as "potsharding", any citizen could be honorably exiled for 10 years by a popular vote, subject to a quorum of 6000 voters, in order that no excessively popular leader could threaten their democracy. What English word comes from the Greek word for potsherd and today means any organized snub? (Ostracism)  
(HOST'S NOTE: The Greek word was Ostrakon)
10. This eclectic writer has written on subjects ranging from Shakespeare to astronomy to mystery. Among his works are the Tales of the Black Widowers and The Universe. For 10 points, name this author of Foundation's Edge (Isaac Asimov)
11. They set the major league baseball record in 1906 for the most wins in a season, 116. For 10 points, name this club which featured the Tinker to Evers to Chance triple play combination. (Chicago Cubs)
12. On Valentine's Day 1987, this celebrated shy person, uncorkable parlor baritone and world's tallest radio humorist announced that his radio program, after 13 years, would finally come to an end. For 10 points, name this author of Lake Wobegon Days. (Garrison Keillor)

Tossups-page two--Madison A

13. "Grow old along with me! The best is yet to be, the last of life, for which the first was made." For ten points, these are the opening lines to what Robert Browning poem? (Rabbi Ben Ezra)

14. His Christian name was George, and from 1809 to 1811 he served in the House of Lords. Then he took a trip to Southeast Europe which provided material and inspiration for his poem Childe Harold's Pilgrimage. For ten points, identify this poet who died in Greece. (Lord Byron)

15. The art of modeling figures or objects in light and shade in order to get a three-dimensional effect on a two-dimensional surface is one way to identify this term. For ten point, what is this Italian word meaning literally light-dark? (Chiaroscuro)

16. Absolute zero on the Kelvin scale is equivalent to -273 degrees Celsius. But for 10 points, to the nearest degree, what is absolute zero on the Fahrenheit scale? (-460--actually -459.6)

17. "Gather ye rosebuds while ye may, old time is still a flying  
And this same flower that smiles today, tomorrow will be dying."  
Any College Bowler worth his salt knows that this is by Robert Herrick  
but for 10 points, what is the name of the poem? (To the Virgins, to Make Much of Time)

18. Heavily influenced by German Romanticism, eastern religion and psychoanalysis, this 1946 Nobel Prize winner wrote such books as Magister Ludi. For ten points, name him. (Hermann Hesse)

19. This composer, born in 1807, composed such pieces as "My Bonnie Lass She Smelleth" and "The Queen to me a Royal Fain Doth Give." His pieces feature an off-colorature and a basso blotto. For ten points, identify this composer who supposedly died in 1742. (P.D.Q. Bach)

20. He often depicted lower middle class Irish Catholics in such novels as The Dunne Family. For ten points, name this author who created Danny O'Neill and Studs Lonigan. (James T. Farrell)

21. The name's the same; the Latin word for work used to distinguish a composer's compositions, and the Penguin in the comic strip Bloom County. For ten points, what's the ommon term? (Cpus)

22. She was born Anne Louise Germaine Necker in 1766. Her works of literature were generally feminist. She was a critic of Napoleon and was expelled from Paris several times. For ten points, identify this woman famous for his salons featuring the political and literary leaders of the time. (Mme. de Stael)

23. This Albanian cavalryman was sent to Egypt in 1800 by the Ottoman Empire to help the British defeat Napoleon. For ten points, name this leader who ruled Egypt from 1805 to 1849. (Muhammad Ali or Mehemet Ali)

24. Among his works were an opera titled "Duke Bluebeard's Castle" and a series of piano pœces called the Mikrokosmos. For ten points, identify this Hungarian composer. (Bela Bartok)

Wisconsin

Mattison B--Tossups

1. It was the best of times, it was the worst of times. ~~So begins~~  
A Tale of Two Cities." For 10 points, what novel begins, "The  
clock struck thirteen"? (1984)
2. Marcellinus in 308, Liberius in 366, Benedict IX in 1044, Gregory VI  
in 1046, St. Celestine V in 1294 and Gregory XII in 1415. Despite  
being pope (and incidentally Catholic), these men have what, FTP, in common?  
(They all abdicated)
3. They form a part of the circulation of air around the permanent  
anticyclones of the tropics and blow northeast in the northern hemisphere.  
These belts may extend over 2400 km of latitude and with the doldrums move  
up to 5 degrees north and south in sympathy with the seasonal changes and  
the sun's declination. FTP, what am I describing? (Trade Winds)
4. Mary Shelley wrote Frankenstein, or the Modern Prometheus. For 10  
points, what Greek wrote Prometheus Bound? (Aeschylus)
5. The first complete English translation was made in 1382, the first  
in Italian in 1471, the first Spanish in 1478, and the first French in  
1487. FTP, what is this book? (Bible)
6. This question might be easy as pie. For ten points, in the standard  
decimal representation of pi, rounded to the nearest ten-thousandth,  
what is the sum of the first five digits? (15---3.1.4.1.6)
7. This snow-capped volcano, inactive since 1708 and located in  
Suruga province, is a resort of pilgrims and has been prominent in art.  
FTP, what is this sacred mountain of Japan? (Mt. Fuji)
8. The northern horn was the Wotan line; the middle was the Siegfried line,  
and the southern horn was the Albrecht line. FTP name this elaborate  
series of entrenchments established in 1916 after the Somme. (Hindenburg Line)
9. You and I (well, I anyway) use Fahrenheit or Celsius when talking  
about temperature. Scientists, however, don't. Instead of Celsius they  
use Kelvin. FTP, what is the scientific equivalent of Fahrenheit? (Rankine)
10. In 1868, forces from Satsuma and Choshu succeeded in bringing down  
the government which had ruled Japan for 250 years and put the emperor  
back on the throne. FTP what name is given to this bureaucratic revolution  
from above? (Meiji Restoration)
11. He began his extensive coverage of the Civil War at Bull Run in 1861.  
FTP, who is this man who documented the war with his crew and their  
wagon, the What is it? (Mathew Brady)
12. A fruit fly has eight, and a cat has thirty-eight. For 10 points,  
what are these things of which humans have 46? (Chromosomes)
13. In April 1942, just months after the Japanese attack on Pearl Harbor,  
B-25's launched from the Hornet staged the first bombing raid on Tokyo.  
While the raid didn't do much damage, it was something of a moral victory.  
FTP, who led this mission? (Col. James Doolittle)

14. He first became famous in 1732 when he issued A Haylot's progress, a series so popular it was widely pirated. Capitalizing on the wages of sin, he did a sequel, The Wake's Progress. FTP identify him. (Wm. Hozarth)
15. 1987 proved to be a chaotic year for the stock market, with the largest drop in the Dow Jones average in a single day. For 10 points, give the number of points the Dow lost on Black Monday. (508)
16. Semper Fidelis, or Always Faithful is the motto of the U.S. Marine Corps. FTP, what branch of the service has the motto semper paratus, or always prepared? (U.S. Coast Guard)
17. Margaret Gorman was the first, and others include Lee Coriweh, Phyllis George and Vanessa Williams. But FTP, who is the current Miss America? (Kaye Lani Rae Rafko)
18. Webster's defines ptomaine poisoning as food poisoning caused by bacteria or bacterial products. Sounds like dorm food to me, but for 10 pts spell ptomaine. (P-t-o-m-a-i-n-e)
19. When a person thinks of US earthquakes, California probably comes to mind. However, fault lines are present throughout the US. In the late 1800s, a quake over 8.0 on the Richter scale hit the Midwest and reversed the flow of the Mississippi from Missouri to Minnesota. FTP on what fault line did this occur? (New Madrid)
20. They can be metal or ceramic. Below a critical temperature, electric current flows without generating heat. FTP, what are these resistanceless materials called? (Superconductors)
21. Many kings went on them, but FTP what 12th century queen shocked France by going on a crusade? (Eleanor of Aquitaine)
22. For the first time in history, the average life expectancy of a person exceeds 80 years. FTP give the gender and nationality of the person whose average lifespan is 80.2? (Japanese female)
23. Suppose a man could walk around the earth at the equator. In terms of a multiple of pi feet, how much farther would the top of his head travel than the soles of his feet, FTP, if he is 6 feet tall? (12 pi)
24. Lepton, baryon, nekton or muon. FTP, which is not a subatomic particle? (Nekton--it is a fish)
25. This device won its inventor a Nobel Prize in 1960, and also played an important role in the 1968 award. It employs superheated liquid hydrogen and is used to reveal the tracks of fundamental particles produced by collisions of subatomic particles. FTP, what is this device? (Bubble Chamber--do not accept Wilson Cloud Chamber)

1. (30) Those of you who read comic books know that Thor is the god of thunder. But can you, for 10 points each, identify the Norse gods of the following: A. God of wisdom (Tiu)  
B. God of poetry (Bragi) C. God of Silence (Vidar)
2. (25) Twinkle, twinkle little star, how I wonder what you are. For 5 pts each, tell me what star you are if you are the brightest star in the following constellations: A. Taurus (Aldebaran) B. Scorpius (Antares)  
C. Orion (Betelgeuse) D. Auriga (Capella) E. Gemini (Pollux)
3. In the early 1900s, two English dons made a drunken bet. The one, JRR Tolkien would write a time travel book--which ended up as Lord of the Rings-- and the other would write a space travel series. Name the competitor, the name of the trilogy he wrote, and the volumes in that trilogy. for 5 points apiece. (C.S. Lewis, the Space Trilogy, Out of the Silent Planet, Perelandra, That Hideous Strength.)
4. The Soviet secret police, the KGB, was formed as the Cheka ~~xxxxxx~~ in 1917 to guard against counter-revolutionary activity. Between these two names, the secret police was known primarily by four different sets of initials--for 5 points each, and a 10 point bonus for all 4, name these initials which at various times have named the secret police. (GPU, OGPU, NKVD and FVD)
5. (25) Comet Halley was the goal of astronomers in 1986, as the USSR sent two probes, Japan sent two, and the European Space Agency sent one of its own. For 5 points apiece, name these comet probes. (Vegai, Vegaz (USSR), Suisei, Sakigake (Japan), Giotto (ESA))
6. (20) Of the engagement here, a French officer said, "It is magnificent, but it isn't war." For 20 points, name this Russian seaport which gained fame for the exploits of British troops on October 25, 1854. (Balaclava)
7. (30) Identify the author by the work, 30-20-10.  
A. The Road to Wigan Pier B. Homage to Catalonia C. Animal Farm  
(George Orwell or Eric Blair)
8. (30) Here's your chance to demonstrate your knowledge of the periodic table. Given two elements and a mathematical relationship, take their atomic numbers, perform the calculation, and tell me the element which has an atomic number which is the result of your calculation. Ten points each.  
A. Oxygen times Nitrogen, divided by Beryllium (Silicon-- $8 \times 7 \div 4 = 14$ )  
B. Bromine minus Boron (Zinc-- $35 - 5 = 30$ )  
C. Radium minus Radon (Helium  $88 - 86 = 2$ )
9. (20) For 5 points apiece, identify the ~~xxxxxx~~ best picture Oscar winners, all of which deal with a foreign subject, which were awarded in the following years.  
A. 1962 (Lawrence of Arabia) B. 1961 (A Man for All Seasons)  
C. 1951 (An American in Paris) D. 1964 (My Fair Lady)
10. (20) Paul McCartney played bass for the Beatles. For 5 points each, identify the usual bass player in each of the following bands:  
A. Rolling Stones (Bill Wyman) B. The Who (John Entwistle)  
C. Led Zeppelin (John Paul Jones) D. The Doors (None)

11. (25) Radioactive decay is the process in which a nucleus spontaneously disintegrates and gives off radiation. 5 types are possible, and you'll capture 5 points for each correct answer you can emit.

(alpha emission, beta emission, positron emission, electron capture, gamma emission)

12. (30) This revolt spread in 1525 from the Southern Black Forest through Austria and the Lower Rhine. Its chief leader was an Anabaptist fanatic. After issuing a manifesto, they proclaimed a community of goods. The leader was eventually captured and executed, while the rebellion was quelled with unheard-of cruelty. For 15 pts each, name the revolt and the leader.

(The Great Peasant War, T. Múnzer)

13. I'll give you the name of a king of France, and for 5 points each, you identify his royal house.

A. Henry III (Valois)      B. Charles X (Bourbon)  
C. Philip II (Capet)      D. Louis Philippe (Orleans)

14. (30) Metamorphic rocks are rocks that were originally igneous or sedimentary, but underwent change due to heat, pressure or water loss. For 10 points each, what type of sedimentary rock did each of these metamorphic rocks begin as?

A. Slate (Shale)      B. Quartz (Sandstone)  
C. Marble (Limestone)

15. (20) Oftentimes, the winner of the Oscar for Best Actor is also in the Best Picture. For 5 points each, identify the best actor winner who appeared in the following best picture films:

A. A man for all seasons (Paul Scofield)      B. Marty (Ernest Borgnine)  
C. All the King's Men (Broderick Crawford)      D. In the Heat of the Night (Rod Steiger)

16. (30) The Treaty of Versailles formally ended World War I between the allies and Germany. Give the name of the treaty which, for 10 points each, terminated the war with these German allies. Hint: all are named for Paris suburbs)

A. Austria (Treaty of St. Germain)  
B. Hungary (Treaty of Trianon)      C. Turkey (Treaty of Sevres)

HCST'S NOTE: The latter of these never went into effect.

17. (25) It may be no surprise, but the 3 magazines with the highest circulation--Reader's Digest, TV Guide and National Geographic--each reach over 10 million people. For 5 points each, give the next 5 largest circulation magazines you can name.

(Better Homes & Gardens, Family Circle, Woman's Day, Good Housekeeping, McCall's)



19. (20) For 20 points, all or nothing, place the reigns of the following English kings in chronological order: Edward IV, Henry V, Richard III, Henry VI, Charles I.

(Henry V, ~~XXXXXXXXXX~~ Henry VI, Edward IV, Richard III, Charles I)

20. (20) In 1987, the Emmy's were dominated by NBC and CBS. For 5 points each, identify the winners of best actor and best actress in a drama series, and the same in a comedy series.

(Drama: Sharon Gless, Bruce Willis; Comedy: Rue McClanahan, Michael J. Fox)

21. (30) You thought the last bonus was trash? Try this one for size! As its name suggests, Campbell's V-8 is composed of 8 different vegetable juices. Name them, garnering 20 points for 4, 25 points for 6 and 30 points for all 8. And you never ate your vegetables.

(Tomato, Carrot, celery, beet, parsley, lettuce, watercress, spinach)

22. (25) 25 points, all or nothing, name the 6 noble gases.

(Helium, Neon, Argon, Krypton, Xenon, Radon)

23. (25) This novel by Anatole France tells the story of the young artist Camelin, who after the French Revolution is appointed as a magistrate to the Revolutionary Tribunal. He is led by his ideals to killing hundreds of his countrymen. For 25 points, name this novel. (The Gods will have Blood)

23. (20) In early 1968 Soviet and other Warsaw Pact troops invaded Czechoslovakia, effectively putting an end to a wide series of reforms which swept the country in an attempt to provide socialism with a human face. For 10 points, first, what name is commonly given to this period of reforms in early 1968? (Prague Spring) For another 10 points, what Slovak leader was responsible for pushing through these reforms? (Alexander Dubcek)

25. (25) Given the area code, identify the largest city that area code serves. A. 313 (Detroit) B. 202 (D.C.)

C. 415 (San Francisco) D. 713 (Houston) E. 215 (Philadelphia)