

Invitational Series #31
Packet 1
Tossups

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1. **Augustus De Morgan discussed its lack of sevens, but he was using the flawed calculation of William Shanks; today, it is believed that all (*) digit combinations are equally likely.** Brouwer asked if it ever contains a thousand consecutive zeroes. For 10 points—name this number approximated in the Egyptian Rhind Papyrus as four times $8/9$ squared, and by Aristotle as $22/7$.

answer: pi

<97-77299>

2. **While in prison after forming the Spear of the Nation, he was charged with treason and convicted in the famous Rivonia Trial. Imprisoned at Pollsmoor and (*) Robben Island, he was released in 1990 by F. W. de Klerk.** For 10 points—name this anti-apartheid leader elected in 1994 as president of South Africa.

answer: Nelson (Rolihlahla) Mandela

<71-63897>

3. **He was the father of Chiron the centaur, and his Roman counterpart was the father of Picus, an Italian king turned into a woodpecker. He overthrew his father (*) Uranus with a sickle given to him by his mother Gaia, and when they predicted that his own son would overthrow him, he ate his first five children until Rhea, his wife, hid his youngest son.** For 10 points—name this Titan toppled by his son Zeus.

answer: Cronos or Cronus

<95-66265>

4. **Formally called "ETS," it is divided into "passive" and "sidestream" varieties. A controversial 1993 EPA report labeled it a "Class A Carcinogen," claiming it causes almost 3,000 (*) lung cancer deaths a year, and it clearly presents a public health risk to asthmatics and children.** For 10 points—give the common name for cigarette smoke inhaled by non-smokers.

answer: secondhand smoke or environmental tobacco smoke

<66-76782>

5. **They run for 1,550 miles from Nanga Parbat in the west to Namcha Barwa in the east and include Dhaulagiri, (*) Annapurna, Manaslu, Lhotse, Makalu, and Kanchenjunga, six of 14 highest peaks in the world. For 10 points—name this Asian mountain range that also includes the highest peak, Mount Everest.**

answer: Himalayas [hih-MAHL-yuz]

<82-89879>

6. **This work, an 1893 tempera [TEM-puh-ruh], prompted its creator to write, “I painted the clouds like real blood. The colors are (*) shrieking.”** The figure in the foreground appears in the form of ectoplasm, with its arms bent upward and its head stripped bare of skin. Inspired by a hallucinatory experience suffered by the artist, this is—for 10 points—what work by Edvard Munch [MOONK]?

answer: The Scream or The Cry (accept reasonable alternatives)

<28-33653>

7. **Mark Hanna replaced him in the Senate when he became Secretary of State, though he stepped down the day Congress declared war on Spain. He had served as Secretary of the Treasury under Hayes, and in between served as chairman of the Senate (*) Finance Committee, where he helped pass the Specie Payment Resumption Act. For 10 points—name this politician, better known as the namesake of two 1890 acts, one on silver purchase and the other regulating monopolies.**

answer: John Sherman

<71-57168>

8. **Pencil and paper ready. To win a set in a tennis match, you must win at least six games by scoring at least four points per game. At Wimbledon, 128 players compete for the men's singles title, so a player must win seven matches, by winning three sets per match, to win the tournament. Thus (*) —for 10 points—what is the absolute *minimum* number of points needed to win the title at Wimbledon?**

answer: 504 points

[$6 \times 4 \times 3 = 72$ points per match $\times 7$ matches = 504 points.]

<79-69088>

9. **To earn twenty-five dollars for her family she sells her only vanity—her long, chestnut-brown hair. She later opens a school for boys at (*) Plumfield with Professor Bhaer, after turning down a marriage proposal from Laurie to devote herself to writing. For 10 points—name this tall and awkward March sister from *Little Women*, the sister of Meg, Beth, and Amy.**

answer: Jo(sephine) March (Bhaer)

<49-74718>

10. **Members of this offshoot of the Eight Trigrams Society performed calisthenic rituals in the belief that this gave them supernatural powers. In 1898 the governor of (*) Shaanxi [SHAHN-SHEE] began using its members in militia units, and by the next year they were openly attacking Western missionaries and their converts. For 10 points—name this secret Chinese society, the namesake of a 1900 uprising against foreigners.**

answer: Boxers (accept Righteous and Harmonious Fists or Yi He Quan or I-ho ch'üan)

<17-73650>

11. **The faintest of its three stars, Mintaka, is just a quarter degree south of the celestial equator and is often used to calibrate planetariums. Its second-brightest star, Alnitak, is beside the (*) Horsehead Nebula. The Arabs called it the “string of pearls.” For 10 points—name this well-known asterism of three bright stars in a row, which kept a mythical hunter's pants from falling down.**

answer: the belt of Orion or equivalent (do not prompt on “Orion” or “sword of Orion”)

<49-76939>

12. **Named for both a former Beate and a Chief Justice, he spent ten years in Maryland before moving to California in 1991. After reading *The Autobiography of Malcolm X* he (*) converted to Islam. He went to Yemen in 1998 to study the Qur'an but moved to Pakistan in October 2000. A year later, U.S. troops captured him and other Taliban fighters. For 10 points—name this so-called “American Taliban.”**

answer: John Walker Lindh or Suleyman al-Faris or Abdul Hamid (prompt on “Lindh”)

[According to *Time*, his parents named him after John Lennon and John Marshall.]

<61-77166>

13. **This man must have had interesting family reunions. His progeny included Jörmungand [YOR-mun-gand], the (*) Midgard serpent; the Fenris wolf; Sleipnir [SLEEP-near], Odin's eight-legged horse; and Hel, goddess of the underworld. With the ability to change shape and sex, this is – for 10 points – what trickster of the Norse pantheon?**

answer: Loki

<57-59222>

14. **It was the subject of the ambitious Pick-Sloan program of the 1950s that resulted in five major dams being built at Fort Peck, Garrison, Gavin's Point, (*) Fort Randall, and Oahe, in Montana, North Dakota, and South Dakota. For 10 points – name this “Big Muddy” river, the largest tributary of the Mississippi.**

answer: Missouri River

<82-89878>

15. **Among the instructions that you might hear in this activity are “bend the line,” “make an arch,” “those who can,” “across the set,” (*) “circle right,” “end ladies chain,” “allemande [AL-uh-mand] left,” and “promenade.” For 10 points – name this recreational form of dance most famous for the call to “do-si-do” one's partner.**

answer: square dancing

<82-89985>

16. **They are best detected with high-pitched sounds and off of surface areas that are large relative to the wavelength of the sound. They can only be discerned with a (*) time interval of at least one-tenth of a second between the emission of a sound pulse and the return of the reflected wave. For 10 points – what noise is named after the nymph who loved Narcissus?**

answer: echo

<32-78460>

17. **In Sir Walter Scott's *Kenilworth* this historical figure lays down his cloak in a muddy spot at Greenwich for the (*) queen to step on. In real life, he lost favor when his marriage to Elizabeth Throckmorton became public, and the jealous queen threw them both in the Tower of London. For 10 points – identify this one-time favorite of Elizabeth I, the namesake of a Carolina city.**

answer: (Sir) Walter Raleigh

<33-49331>

18. **The first mention of her on Usenet was on May 13, 1993 in a posting about a new member of the *New Mickey Mouse Club from Kentwood*, (*) Louisiana. She is complimented as a fine dancer, especially for an 11-year old, and has ambitions to have a solo music career, something that would come true in 1999 with the release of *Baby, One More Time*. For 10 points – name this artist of *Oops, I Did It Again*.**

answer: Britney Spears

<7-76236>

19. **The early “emission” models were of limited use and could only form an image of the source. “Transmission” models were developed in the 1930s, but were soon replaced by the modern type of this device, capable of resolutions approaching 10 (*) nanometers and known as the “scanning” type. For 10 points – name this kind of microscope that uses beams of a certain subatomic particle.**

answer: electron microscope (accept scanning electron microscope or SEM before “scanning”; “microscope” is not needed after question is finished)

<31-68870>

20. **The author of *Kwakiutl [kwah-kee-YOO-tul] Ethnography*, he emphasized the need to perform lengthy, detailed studies before drawing conclusions in his “culture history” approach to anthropology. The first professor in that discipline at Columbia, his (*) students included Melville Herskovits, Edward Sapir [suh-PEER], Ruth Benedict, and Margaret Mead. For 10 points – name this American author of *The Mind of Primitive Man* and *Race, Language, and Culture*.**

answer: Franz Boas

<82-90256>

21. **It centers on the diaries of Jonathan Harker, his wife Mina, Dr. Seward, and Lucy (*) Westenra, an eventual victim of the title character. Harker and his friends, led by Dr. Van Helsing, finally destroy the antagonist, an emigrant from Transylvania, only after a series of intense adventures. For 10 points—name this 1897 masterpiece of Bram Stoker.**

answer: Dracula

<17-73991>

22. **In the Bible, this mineral represents the tribe of Issachar [IH-suh-KAHR] on Aaron's breastplate. Heating it will convert it into citrine, while exposing citrine to X-rays will convert citrine into this (*) gem. Long adorning the hands of royalty, the presence of iron 4+ ["four plus"] ions gives this gem its distinctive purple hue. For 10 points—name this form of quartz, the birthstone of February.**

answer: amethyst (prompt on "quartz")

<45-88231>

23. **Native to Asia and Africa, varieties of these fish have turned up in seven states. Their name refers to the large scales on their head and the frontal placement of the eyes. Extremely (*) predatory, they feast on other fish, and even worse, they can survive an overland trek of three days to find better hunting waters. For 10 points—name these fish recently sighted in Maryland.**

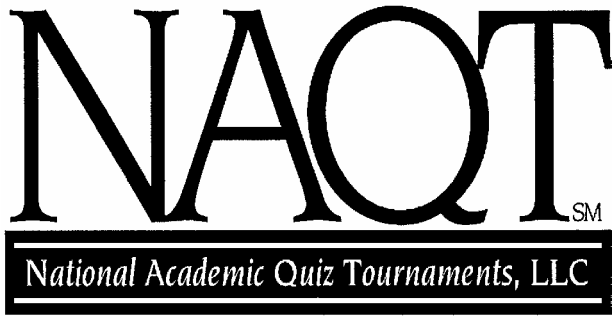
answer: snakeheads

<57-90162>

24. **He has the number 757 tattooed on his arm, symbolic of his hometown area code of Virginia Beach. However, he has not had tattooed the 517 area code of East Lansing, where, in 1998, he set the single season record for (*) receptions by a Spartan, or the 412, 724, or 878 area codes of Pittsburgh, where he now plies his trade. For 10 points—name this bizarrely marked and named six-five Steeler wideout.**

answer: Plaxico Burress

<21-76509>



Invitational Series #31
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Bonuses

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1. For 10 points each—name these tubes in the human body:

A. This tube carries food from the mouth to the stomach.

answer: esophagus

B. These tubes connect the ears to the nose and throat to maintain air pressure.

answer: Eustachian tubes

C. These tubes transport eggs to the uterus.

answer: fallopian tubes

<71-88169>

2. For 10 points each—identify these European cities which are namesakes of Mozart symphonies:

A. Symphony No. 38, named for this capital on the Vltava river.

answer: Prague or Praha

B. Symphony No. 36, named for this Austrian city on the Danube.

answer: Linz

C. Symphony No. 31, named for this French city on the Seine [sen].

answer: Paris

<73-78688>

3. In 1787 he led a rebel force of twelve hundred against the federal arsenal in Springfield, Massachusetts. For 10 points each— name:
- A. This captain of the Revolutionary Army who fought against excessive land taxation and foreclosures.
answer: Daniel Shays
- B. The Secretary of War who attempted to raise an army for defense in the New England area.
answer: Henry Knox
[Knox was Secretary of War under the Articles of Confederation and in Washington's Cabinet.]
- C. The general who defeated Shays; he shares his surname with an American president.
answer: Benjamin Lincoln
- <97-67225>
4. Answer these questions about prayers in Islam, for 10 points each:
- A. One of the “pillars” of Islam is that Muslims will pray how many times per day?
answer: five
- B. During prayers, Muslims face toward what building, supposedly built by Abraham?
answer: al-Ka'aba [KAH-bah]
- C. On this day of the week, the noontime prayer, or Zuhr [ZOO-her], is replaced with a sermon and a shortened prayer.
answer: Friday (accept jumah or gumah)
- <62-74372>
5. For 10 points each—in which Shakespearean comedy would you find these characters?
- A. Leonato, Beatrice, and Benedick
answer: Much Ado About Nothing
- B. Falstaff, Mistress Page, and Mistress Ford
answer: The Merry Wives of Windsor
- C. Malcolm, Donalbain, Duncan, and Banquo.
answer: Macbeth
- <49-73040>
6. For 10 points each—name these terms from classical mechanics:
- A. These are quantities that can be described entirely by their magnitude.
answer: scalars or scalar quantities
- B. These quantities require both direction and magnitude to be fully described; examples include velocity and force.
answer: vectors or vector quantities
- C. If vector C is the sum of two vectors A and B , this nine-letter term describes vector C .
answer: resultant
- <30-87761>

7. Answer these questions about fictional canines, for 10 points each:

- A. Arnold “the semi-wonder dog” was listed in the credits of what ABC series starring Kellie Martin that had characters with both Down syndrome and AIDS?

answer: Life Goes On

- B. Which pet alternately protects and insults his housemate, Dilbert, in between running his “New Ruling Class”?

answer: Dogbert

- C. In what movie does Michael Palin play a stuttering con who, trying to kill Mrs. Coady, kills her dogs off instead, one by one?

answer: A Fish Called Wanda

<62-80569>

8. Answer these questions about Hoover Dam for 10 points each:

- A. It is located on what river?

answer: Colorado River

- B. When it became operable in 1935, it created what large artificial lake?

answer: Lake Mead

- C. From 1935 to 1947, Hoover Dam was known by what other name?

answer: Boulder Dam

<73-78834>

9. It has been called a weak echo of the Second Confiscation Act and criticized for exempting Tennessee, part of Virginia and Louisiana, and the border states. For 10 points each— name:

- A. This decree issued in 1863.

answer: the Emancipation Proclamation

- B. The 1862 battle immediately after which Lincoln issued a preliminary version of the Proclamation.

answer: Battle of Antietam or Battle of Sharpsburg

- C. The constitutional amendment that abolished slavery.

answer: Thirteenth Amendment

<72-58987>

10. Name these related individuals, for 10 points each:

- A. He published the photography book, *A Gallery of Illustrious Americans* and cemented his fame with a massive Civil War photography project.

answer: Mathew B. Brady

- B. Brady first learned the daguerreotype [duh-GEH-roh-ty] process from this man, better known for his invention of a namesake telegraph communication system.

answer: Samuel F(inley) B(reese) Morse

- C. Morse was a founder of the National Academy of Design. Among his co-founders was this founder of the Hudson River school noted for *The Course of Empire* series.

answer: Thomas Cole

<17-77123>

11. Name these basic cloud types, for 10 points each:

A. These large sheet-like clouds lie below 8,000 feet and are parallel to the horizon.

answer: stratus

B. These high, wispy clouds, sometimes called mares' tails, are found at about 33,000 feet.

answer: cirrus

C. These tall, anvil-shaped clouds, also called thunderheads, extend from 4,500 feet to well over 20,000 feet.

answer: cumulonimbus

<49-77211>

12. How much do you know about the founding of Rome?

A. For 5 points each – these twins are credited with the founding of the city.

answer: Romulus and Remus

B. For 10 points – Romulus and Remus were the sons of the vestal virgin Rhea Silvia and what god?

answer: Mars

C. For 10 points – the twins were set adrift as children on what river?

answer: Tiber or Tevere

<21-60548>

13. A \$25-billion technology merger announced in September 2001 may never see completion. For 10 points each –

A. What Palo Alto-based computer goliath and its CEO, Carly Fiorina, were embarrassed when the families of both its founders publicly opposed the merger?

answer: Hewlett-Packard Company or HP

B. Hewlett-Packard had planned to buy out this Houston-based PC company.

answer: Compaq Computer Corporation

C. The HP-Compaq merger was designed to stem the growth of this company, which surpassed Compaq early last year as the world's top PC maker.

answer: Dell Computer Corporation

<66-76282>

14. For 10 points each – name the capitals of these Central American countries:

A. Nicaragua

answer: Managua

B. Honduras

answer: Tegucigalpa

C. Costa Rica

answer: San Jose

<61-72861>

15. It intersects the celestial equator at an angle of about 23 degrees. For 10 points each—

A. Name this path that, as seen from earth, the sun follows.

answer: ecliptic [ee-KLIP-tik]

B. The celestial equator and the ecliptic intersect at what points, which the Sun passes on or around March 21 and September 23?

answer: equinoxes or nodes

C. The equinoctial [EE-kwuh-nahk-shul] points undergo this movement as a result of a change in the direction of the earth's axis of rotation.

answer: precession of the equinoxes

<32-82320>

16. For 10 points each—name the baseball player who most regularly fielded these positions for these teams in these years:

A. Center Field, Yankees, 1936-42 and 1946-51

answer: (Joseph Paul) "Joe" DiMaggio

B. First Base, Giants, 1965-73 and 1977-78

answer: Willie (Lee) McCovey

C. Shortstop, Brewers, 1974-84

answer: Robin (R) Yount

<11-47845>

17. Name these orders of monks, for 10 points each:

A. Founded in 1216 by a Spaniard, it gained prestige by fighting heresy and is officially known as the Order of Friars Preachers.

answer: Dominican(s) (prompt on "Black Friars")

B. Innocent III sanctioned this Order of Friars Minor, founded by a man from Assisi who originally wanted to become a knight.

answer: Franciscan(s)

C. The first of these monasteries was established in 529 between Rome and Naples by a man whose code of conduct was followed by many orders.

answer: Benedictine(s) (accept Order of Saint Benedict)

<97-68498>

18. His island seems to be located near Naples, though it is based on a more Caribbean locale. For 10 points each—name:

A. This monster, whose mother Sycorax imprisoned Ariel in a tree.

answer: Caliban

B. The deposed Duke of Milan who lived there with his daughter Miranda.

answer: Prospero

C. The Shakespearean play in which Caliban and Prospero are characters.

answer: The Tempest

<97-76474>

19. For 10 points each—given an ionic compound, give its chemical formula:

A. Stannic hydroxide

answer: Sn(OH)₄

B. Ferrous [“ferris”] iodide

answer: FeI₂

C. Stannous sulfate

answer: SnSO₄

<10-67080>

20. For 10 points each—name these things related to 19th-century Italy:

A. What Piedmontese statesman helped bring about Italian unification in 1861 and became its first prime minister?

answer: Camillo Benso, conte di Cavour

B. What nation's victory at the 1896 battle of Adowa frustrated Italian hopes of building a colonial empire?

answer: Ethiopia

C. In 1882 Italy joined Austria-Hungary and Germany in what secret pact, periodically renewed until Italy entered World War I on the other side?

answer: Triple Alliance

<7-90213>

21. 30-20-10. Name the political figure.

A. He tried to overthrow King Hussein of Jordan in the “Black September” uprising of 1970, but was kicked out of the country instead.

B. Like King Hussein, he supported Iraq in the Persian Gulf War, 34 years after he founded the al Fatah movement to win national independence.

C. The chairman of the Palestine Liberation Organization since 1968, he was elected president of the Palestinian National Council in 1996 with 90% of the vote.

answer: Yasser Arafat or Muhammad 'Abd ar-Ra'uf 'Arafat al-Qudwah al-Husayni

<95-84926>

22. Name the creators of these literary Maggies, for 10 points each:

A. Maggie Johnson, a “girl of the streets.”

answer: Stephen Crane

B. Maggie Tulliver, who drowns in the Floss River near Dorlcote Mill.

answer: George Eliot (or Mary Ann Evans)

C. Maggie “the Cat” Pollitt, a Southern woman trying to seduce her husband Brick back to her bed.

answer: (Thomas Lanier) “Tennessee” Williams

<66-52758>

23. Name the group that would be added to a benzene ring to give these compounds:

A. For 5 points—phenol

answer: OH or hydroxyl or hydroxide

B. For 10 points—benzoic acid

answer: COOH or carboxyl or carboxylate

C. For 15 points—toluene

answer: CH₃ or methyl (do not accept “methane”)

<41-80687>

24. Name these Mexican leaders, for 15 points each:

A. This national hero was president from 1861 until his death in 1872, and fought against foreign occupation under the emperor Maximilian.

answer: Benito (Pablo) Juárez [HWAHR-us]

B. He became president in 1877 and kept the country in firm control for more than three decades until being forced into exile in 1911.

answer: Porfirio Díaz

<86-76065>