

2016-17 Small School Championship
Packet 18

Tossups

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1. **Edward Piggott and John Goodricke observed the namesake behavior of these objects, which is caused by the kappa mechanism. Edwin Hubble discovered Hubble's law by using these objects as standard candles for measuring extra-galactic distances. By studying these stars in the (*) Magellanic [maa-juh-LAN-ik] Clouds, Henrietta Leavitt [LEV-it] found a relation between their luminosity [loo-mih-NAH-sih-tee] and pulsation period. For 10 points—name these variable stars.**

answer: Cepheids [SEH-fee-idz] (or Cepheid variables or Cepheid variable stars or classical Cepheids or type I Cepheids or Delta Cepheids; prompt on “variable(s)” or “variable star(s)” before “variable”)

<426784>

2. **A mentally ill watchmaker named Robert Hubert claimed to have caused this disaster as an agent of the pope. The inaction of Thomas Bloodworth allowed this disaster to continue beyond the first day. A diary written by Samuel (*) Pepys [peeps] described this disaster, which destroyed St. Paul's Cathedral. For 10 points—name this 1666 conflagration that burned through much of a European capital city.**

answer: (First) Great Fire of London (accept equivalents mentioning London and the concept of fire; prompt on references to a “fire” that do not mention London before “conflagration”)

<426229>

3. **This country's capital lies below sea level on the Absheron Peninsula and houses UNESCO World Heritage Sites such as the Shirvanshahs' [shir-VAHN-shahz] Palace. After the Cold War, this oil-rich country fought a Christian neighbor over the disputed region of (*) Nagorno-Karabakh. It is a longtime rival of Armenia to the south. For 10 points—name this Caucasus country on the western shore of the Caspian Sea, whose capital is Baku.**

answer: Azerbaijan [AH-zur-“by”-ZHAHN] (or Republic of Azerbaijan or Azerbaycan Respublikasi)

<427638>

4. **Barry Marshall won a Nobel Prize for his studies on this organism; as a part of those studies, Marshall swallowed a culture of it. For patients allergic to penicillin, metronidazole can be used as part of the “triple therapy” to eliminate this organism. This Gram-negative bacterium uses urease to generate ammonia, allowing it to live in the (*) acidic stomach. For 10 points—what bacterium causes duodenal and stomach ulcers?**

answer: H. pylori or Helicobacter pylori

<426810>

5. **This person saved 37 children from a hospital during the 1982 Siege of Beirut [bay-ROOT]. In 1952 this person converted a temple into the Kalighat [KAHL-ee-ghat] Home for the Dying. The first (*) miracle attributed to this woman was the healing of Monica Besra's [BEZ-ruh's] abdominal tumor. The Missionaries of Charity were founded by—for 10 points—what Albanian-born nun who was canonized in September 2016 for her work in Calcutta?**

answer: Mother Teresa (or Saint Teresa of Calcutta or Anjezë Gonxhe Bojaxhiu; prompt on “Teresa”)

<427118>

6. **A resident of this town forgets to say “thou shalt not commit adultery” when asked to recite the Ten Commandments. Another resident of this town asks for “more weight” while being crushed to death. The slave (*) Tituba [TIH-chuh-buh] is seen leading a ritual in the woods near this town. Abigail Williams accuses Elizabeth Proctor of witchcraft in—for 10 points—what New England town that is the setting of Arthur Miller's play *The Crucible*?**

answer: Salem (accept Salem Village or Salem Town; prompt on “Danvers”)

<426053>

7. **When preceded by “abstract,” this word means a branch of mathematics concerned with rings, fields, and groups. The adjective form of this word refers to numbers that are the roots of polynomials with integer coefficients and are not transcendental. Every n th-degree polynomial has n (*) complex roots according to the “fundamental theorem” of—for 10 points—what branch of mathematics concerned with equations and variables?**

answer: algebra (accept algebraic; accept abstract algebra or algebraic numbers or fundamental theorem of algebra)

<427416>

8. **Soldiers of this ethnicity made up most of the 442nd Regimental Combat Team, which used the slogan “Go for Broke!” during World War II. The first congressman from Hawaii, Daniel Inouye [IH-noo-ay], was a member of this ethnic group. Tule [TOO-lee] Lake and (*) Manzanar [MAN-zuh-nar] were the sites of camps that housed people of this ethnicity. The *Korematsu* [kor-ah-MAHT-zoo] case of 1944 concerned the rights of—for 10 points—what Asian-American ethnic group?**

answer: Japanese-Americans (accept Nisei or Nihongi; accept equivalents that refer to people of Japanese descent in the U.S.; prompt on “Asian(-Americans)” or “(East) Asians” before “Asian-American”)

<427044>

9. **In one story by this author, Lionel kicks Uncle Webb's goggles into a lake. Another story by this author describes a beach honeymoon in Florida that ends in the suicide of Seymour Glass. This author's stories “Down at the Dinghy” [DING-ee] and “A (*) Perfect Day for Bananafish” appear in his collection *Nine Stories*. For 10 points—what author wrote about a Pencey Prep student named Holden Caulfield in *The Catcher in the Rye*?**

answer: J. D. Salinger (or Jerome David Salinger)

<424877>

10. **“Aphanitic” [AF-uh-NIT-ik] and “phaneritic” [FAN-uh-RIT-ik] are two common textures for this class of solid materials. Examples of these materials made of small fragments are known as tuffs, while large crystals occur in ones known as pegmatites [PEG-muh-“tights”]. These rocks are classed by whether they form (*) underground or aboveground, resulting in types known as “intrusive” and “extrusive,” or “plutonic” [plooh-TAH-nik] and “volcanic.” For 10 points—name these rocks formed from magma or lava.**

answer: igneous rocks [IG-nee-us “rocks”] (accept igneous rocks after “rocks”; prompt on “rock(s)” before “rocks”)

<426892>

11. **A jazz performer who primarily played this instrument led a series of big bands known as “Herds.” Woody Herman played this instrument that, along with a trumpet and a trombone, forms the traditional “frontline” in a Dixieland band. This instrument plays a low trill followed by a two-and-a-half octave upward (*) glissando to open George Gershwin's *Rhapsody in Blue*. For 10 points—name this woodwind played by Benny Goodman.**

answer: clarinets

<427051>

12. **The protagonist of this film goes with a farmer to fix a broken water pump before the farmer's home is attacked by forces from Transigen, a biotech company. One character in this film suffers dangerous seizures due to his advanced age, though he compels the protagonist to aid Laura, a subject of the (*) X-23 project. A young mutant is taken to Canada in—for 10 points—what final film starring Hugh Jackman as Wolverine?**

answer: Logan

<426924>

13. **In curling, the center circle of the house is known by this term. The initial segment of a rattlesnake's rattle has this name. In the children's book *Corduroy* [KOR-duh-roy], the title teddy bear is *not* bought because his overalls are missing one of these things. A man with this surname (*) ages backwards in an F. Scott Fitzgerald story about a "curious case." For 10 points—what word follows "belly" in a common name for the navel?**

answer: button(s) (accept button rattle or The Curious Case of Benjamin Button or belly button(s))

<426484>

14. **This modern-day country's fight for freedom is the topic of C. L. R. James's book *The Black Jacobins* [ˈJACK-oh-bins]. After defeating French troops who were weakened by yellow fever, Jean-Jacques Dessalines [zhawn zhahk dess-uh-LEEN] declared this nation's independence. Napoleon sold Louisiana after failing to reclaim this former (*) sugar colony. Toussaint L'Ouverture [too-SAN loo-vair-TOOR] led a slave revolt in—for 10 points—what Caribbean country that borders the Dominican Republic?**

answer: Haiti (or Republic of Haiti or Republique d'Haïti or Repiblik d' Ayiti; do not accept or prompt on "Saint-Domingue")

<406805>

15. **For many solids, at high temperatures this quantity's value per mole is roughly 3 times the universal gas constant R , according to the Dulong-Petit [doo-"LONG"-puh-tee] law. For a monatomic [MAH-nuh-TAH-mik] ideal gas, the constant-volume molar value of this quantity is (*) $3/2$ ["three-halves"] times R . This quantity can be measured in units of joules [joolz] per kelvin. For 10 points—name this quantity, which is the energy needed to raise a material's temperature by one degree.**

answer: heat capacity (accept molar heat capacity or (molar) specific heat capacity before "10 points"; prompt on "specific heat" before "10 points")

<426667>

16. **In this body of water, "skipjack" sailboats are used to harvest oysters. This body of water traditionally has the largest blue crab harvest in the world. Rivers that flow into this body of water include the Patapsco [puh-TAP-skoh] and the (*) Susquehanna [suss-kwuh-HAN-uh]. A bridge-tunnel traversing this largest American estuary [ESS-choo-"air"-ee] connects Hampton Roads to the Delmarva [del-"MAR"-vuh] Peninsula. For 10 points—name this bay that borders Virginia and Maryland.**

answer: Chesapeake [ˈCHESS-uh-peak] Bay

<418899>

17. **This character solves a riddle by realizing that allusions to the "pomp of kings" and "the monarch of the seas" refer to the words "court" and "ship." On Christmas Eve this character shares an awkward carriage ride with Mr. Elton, a vicar [VIK-er] whose marriage proposal she has just rejected. This woman insists that a farmer is an unsuitable (*) spouse for Harriet Smith. For 10 points—name this title matchmaker of a novel by Jane Austen.**

answer: Emma Woodhouse (or Emma Knightley; accept any underlined portion; prompt on "(Mrs.) Knightley")

<427186>

18. **This hero refuses mercy to a foe who wears a belt taken as a trophy from one of this man's companions. His father was struck by a thunderbolt after boasting about an affair with Venus that produced this man. The Cumaean Sibyl [ˈcue"-MAY-un SIB-il] advised this hero to enter the underworld with a golden bough. This man fled (*) Troy with his father Anchises [an-KYE-seez]. The Carthaginian [ˈcar"-thuh-JIN-ee-un] queen Dido [ˈDIE"-doh] loved—for 10 points—what hero of an epic poem by Virgil [VUR-jil]?**

answer: Aeneas [uh-NEE-us] (or Aineias; do not accept or prompt on "Aeneid")

<404932>

19. **This school won the first 64-team men's NCAA [ˈN-C-double-A"] basketball tournament by beating Georgetown as an 8-seed. Hall-of-Famer Paul Arizin [ˈAIR"-ih-zin] played for this school, as did Toronto's Kyle Lowry. During an April 2016 game, this school's (*) Kris Jenkins hit a buzzer-beater to defeat UNC [ˈU-N-C"]. A 2017 tournament loss to Wisconsin in the second round knocked out—for 10 points—what Big East university that was defending its 2016 championship?**

answer: Villanova University (prompt on "Wildcats" or "Nova")

<425809>

20. **This disease kills the selfless doctor Walter Fane in W. Somerset Maugham's ["SUMMER-set" MAWM'Z] novel *The Painted Veil*. Gustav von Aschenbach [AH-shen-bahk] realizes that an epidemic of this disease is being kept secret in Thomas Mann's ["TOE"-mahss MAHN'Z] novella (*) *Death in Venice*. Fermina Daza ["fair"-MEE-nah DAH-zuh] marries a doctor committed to eradicating this disease in a South American country. For 10 points—what disease defines a “Time” when “Love” occurs in a novel by Gabriel García Márquez [gah-bree-EL gar-SEE-ah “MAR”-kez]?**

answer: cholera [KAH-ler-uh] (accept Love in the Time of Cholera or El amor en los tiempos del cólera)

<425960>

21. **The availability of this legal doctrine is guaranteed in the “law of the land” clause of the Magna Carta. Article 1, Section 9 of the U.S. constitution—which mentions this doctrine in the context of “cases of rebellion or invasion”—was invoked by Abraham Lincoln to (*) suspend this doctrine. Unlawful detention is reported using—for 10 points—what “Great Writ” known by a two-word Latin phrase meaning “you may have the body”?**

answer: (writ of) habeas corpus

<427614>

22. **This substance is called *mevushal* [meh-vooh-SHAHL] if it has been boiled so it can't be used in idol worship. In the Jewish circumcision ritual, this substance is used as an anaesthetic. At the end of Shabbat [shah-BAHT], a candle is dipped in this substance to put it out. At the Passover seder [SAY-dur], participants consume (*) four servings of this substance. On Friday night, Jews bless bread and recite kiddush [KID-ush] over—for 10 points—what alcoholic drink?**

answer: wine (accept more specific answers such as red wine or white wine; prompt on “alcohol” or similar answers before “alcoholic”)

<427605>

23. **Ziad Ahmed was admitted to Stanford after writing a “What matters to you, and why?” essay consisting of this three-word phrase 100 times. It was coined in a letter stating “I love you. I love us.” written by Alicia Garza after the acquittal of George (*) Zimmerman. Opponents of this phrase often replace its first word with “blue” or “all.” For 10 points—what phrase names a movement opposing police shootings of African-Americans?**

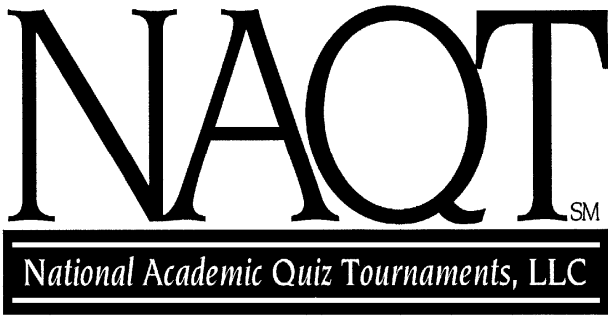
answer: Black Lives Matter (or #BlackLivesMatter; prompt on “BLM”; do not accept or prompt on “Blue Lives Matter” or “All Lives Matter”)

<427662>

24. **When applied to a beam, the constant in this law equals the beam's cross-section divided by its length, times Young's modulus. This law is also commonly applied to objects with two relevant diameters and a winding number. This law describes the (*) restoring force that is proportional to the stretch distance. A contemporary of Isaac Newton is the namesake of—for 10 points—what law for the force exerted by a spring?**

answer: Hooke's law [A spring is described by both the diameter of its coil and the diameter of the wire out of which it is made.]

<427388>



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Bonuses

1. An opium addict in this novel named Molly dies in the snow while traveling to a New Year's party at the Red House. For 10 points each—

A. Name this novel in which the title weaver finds and adopts Molly's daughter, who is secretly the child of Godfrey Cass.

answer: Silas Marner(: The Weaver of Raveloe)

B. This author of *Silas Marner* scandalized Victorian society by her decades-long relationship with the married George Henry Lewes ["lewis"].

answer: George Eliot (or Mary Ann Evans or Marian Evans or Mary Ann Cross; accept Marian Evans Lewes; prompt on "(Marian) Lewes")

C. The title river floods at the end of this George Eliot novel, which depicts Tom Tulliver's disapproval of his sister Maggie.

answer: The Mill on the Floss

<427207>

2. If two waves overlap at a single point, the total displacement of the combined wave equals the sum of the displacements due to each individual wave. For 10 points each—

A. Name this "principle" that governs interference.

answer: principle of superposition (of waves)

B. If waves have the same amplitude but are 180 degrees out of phase, this specific form of interference occurs.

answer: destructive interference

C. If two coherent waves of wavelength 500 nanometers interfere destructively, this is the shortest possible path difference, in nanometers, in the routes they took to reach the point of interference.

answer: 250 nanometers

<427319>

3. One character in this video game is "green lighted" after destroying a house owned by Martin Madrazo [mah-DRAH-zoh]. For 10 points each—

A. Name this game in which the player can switch between Franklin, Michael, and Lester while causing mayhem in San Andreas [an-DRAY-uss].

answer: Grand Theft Auto V ["G-T-A five"] (or GTA V ["G-T-A five"]; prompt on "Grand Theft Auto"; do not accept or prompt on any answer including "San Andreas")

B. The Galileo Observatory and Vespucci [vess-POO-chee] Beach in San Andreas are analagous to this real-life city's Griffith Observatory and Venice Beach.

answer: Los Angeles, California (or L.A.)

C. Franklin has a long conversation with a helpful dog, an homage to this fictional collie created by Eric Knight. This dog never actually helped to rescue Timmy from a well.

answer: Lassie (accept Lassie Come-Home)

<362855>

4. This general's plan for an inverted, lopsided phalanx [FAY-lanks] formation won the 371 BC Battle of Leuctra [LOOK-truh]. For 10 points each—

A. Name this leader who suffered a mortal wound while winning the Battle of Mantinea [man-tin-EE-uh]. After his death, Macedon [MASS-uh-dahn] was able to beat his demoralized troops.

answer: Epaminondas [ih-pam-ih-NAHN-duss] (or Epameinondas)

B. Epaminondas was a leader of this Greek city-state. Another of its leaders, Pelopidas [puh-LAH-puh-duss], led its Sacred Band of 300 elite warriors at Leuctra.

answer: Thebes (or Thebai or Thíva; accept Sacred Band of Thebes)

C. The Theban victories at Leuctra and Mantinea were defeats of this city-state, which had been the major power in Greece since it won the Peloponnesian [pel-uh-puh-NEE-zhun] War.

answer: Sparta (or Lacedaemon)

<31764>

5. For 10 points each—answer the following about detecting lies:

A. This device, whose efficacy has not been scientifically demonstrated, measures things like pulse, blood pressure, and galvanic [gal-VAN-ick] skin response while a subject is answering questions.

answer: polygraph (prompt on “poly”)

B. The “functional” version of this technique, which measures the amount of blood flow in different regions of the brain, has potential applications as a lie detection technique.

answer: MRI (or magnetic resonance imaging; accept fMRI or functional magnetic resonance imaging)

C. fMRI scans show increased activity in this area of the brain when people are lying. Along with the frontal, temporal and occipital lobes, it is one of the four major lobes of the brain.

answer: parietal [puh-RYE-uh-tul] lobe

<42698>

6. For 10 points each—answer the following about continental-scale communication projects:

A. Between April 1860 and October 1861 this service carried messages from St. Joseph, Missouri, to Sacramento, California in 10 days thanks to a chain of 184 horse-changing stations.

answer: Pony Express

B. In 1858 the first transatlantic message sent via this type of communication device took 17 hours to go from Ireland's Valentia Island to the Newfoundland [“NEW-fun“-lund] town of Heart's Content.

answer: (transatlantic) telegraphs (accept telegrams or telegraphy; do not accept or prompt on “Morse (code)”)

C. This author's 2014 book *Flash Boys* details the laying of a fiber-optic cable from New Jersey to Chicago for high frequency stock trading. This author also wrote *Moneyball*.

answer: Michael (Monroe) Lewis

<426107>

7. Lee Atwater masterminded a negative advertising campaign against this man that included an ad about a furloughed prisoner named Willie Horton. For 10 points each—

A. Name this Democrat who lost the presidential election of 1988.

answer: Michael (Stanley) Dukakis

B. This senator was Dukakis's running mate. In the vice presidential debate, he told Dan Quayle that the latter was “no Jack Kennedy.”

answer: Lloyd (Millard) Bentsen (Jr.)

C. Bentsen went on to serve as the first holder of this Cabinet position under Bill Clinton. A former CEO of Goldman Sachs, Hank Paulson, held this position at the end of George W. Bush's presidency.

answer: Secretary of the Treasury

<427215>

8. This painting's "blood red" sky was inspired by a real-life sky the artist observed in 1892. For 10 points each—
- A. Name this Edvard Munch [ED-ward MOONK] painting of a man holding his hands to his face.
answer: The Scream (or Skrik or The Scream of Nature or Der Schrei der Natur; accept the Cry)
- B. *The Scream*, along with Munch's *The Kiss* and *Ashes*, is part of a series of works named after these decorative architectural carvings. Munch used this term to describe his paintings "of Life."
answer: frieze ["freeze"] (or frisen; accept The Frieze of Life or Livsfrisen)
- C. Munch depicted the landscape of Åsgårdstrand [AHZ-gard-shtrand] in a painting with this title. Another painting with this name shows an illuminated village as seen from an asylum in Saint-Rémy [san-ray-MEE].
answer: Starry Night (accept Stjernenatt or The Starry Night or De Sterrennacht)
9. A document known as the *Community Rule* was one of the first to be discovered in the Qumrun Caves near this body of water. For 10 points each—
- A. Identify this body of water in the Middle East, near which dozens of namesake ancient Jewish "scrolls" have been discovered since 1947.
answer: Dead Sea or Salt Sea (or al-Bahr al-Mayyit or Yam ha-Melakh; accept Dead Sea Scrolls)
- B. The Dead Sea Scrolls are most commonly attributed to this Jewish sect, which existed alongside the Pharisees ["FAIR"-uh-seez] and Sadducees [SAJ-uh-seez] during the Second Temple period.
answer: Essene [ES-seen] sect (or Essenes or Essenoi or Essaioi or Ossaioi)
- C. Most of the scrolls are written in Hebrew, but some are written in this other Semitic language. It is generally thought to be the language primarily spoken by Jesus.
answer: Aramaic language [air-uh-MAY-ik] (or Aramaya; accept Western Aramaic)
10. One memorial site in this town contains the "Unknown Inmate" statue near a building formerly used as a crematorium. For 10 points each—
- A. Name this German town that names the first Nazi concentration camp, which was established nearby in 1933.
answer: Dachau [da-KOW]
- B. Dachau is just northwest of this larger German city that serves as the capital of the state of Bavaria.
answer: Munich (or München)
- C. Munich serves as the host for this annual beer festival that, despite its name, takes place primarily during September. Over 6 million tourists attend this festival every year.
answer: Oktoberfest
11. For 10 points each—answer these questions about quartic polynomials [KWAR-tik pah-lit-NOH-mee-ulz]:
- A. What is the degree of any quartic polynomial?
answer: 4 (accept fourth-degree polynomial or fourth-order polynomial)
- B. If a quartic polynomial with real coefficients has a root at the complex number $6 + 4i$, what is the *maximum* possible number of *real* roots it could have?
answer: 2 real roots [Since complex roots always come in conjugate pairs, the polynomial must have a second complex root at $6 - 4i$; since quartic polynomials have a maximum of 4 roots, at most $4 - 2 = 2$ could be real.]
- C. Along with Paolo Ruffini [POW-loh roo-FEE-nee], what Norwegian mathematician proved that polynomials of degree *greater* than 4 might not be solvable in terms of addition, subtraction, multiplication, division, and taking roots?
answer: Niels Henrik Abel [AH-bul] (accept Abel's impossibility theorem or Abel-Ruffini theorem)

12. For 10 points each—name these pioneering figures in modern dance:

A. This woman, often cited as the single most influential person in the history of modern dance, commissioned and choreographed Aaron Copland's ["COPE"-lund'z] *Appalachian Spring* [ap-uh-LAY-shun "spring"].

answer: Martha Graham

B. This early 20th-century American expatriate rejected classical ballet in favor of pure interpretive dance. She died when one of her long scarves became entangled in a car wheel.

answer: (Angela) Isadora Duncan

C. This choreographer, who founded a namesake New York City dance theater, chronicled the history of black Americans in his work *Revelations*.

answer: Alvin Ailey (Jr.) (accept Alvin Ailey American Dance Theater)

<402661>

13. During this war, Count Tilly's army carried out the brutal sack of Magdeburg [MAG-duh-burg]. For 10 points each—

A. Name this long 17th-century war between Protestants and Catholics that was ended by the Peace of Westphalia ["west-FAIL"-yuh].

answer: Thirty Years' War

B. The Thirty Years' War began after an Elector Palatine ["PAL-uh-tine"] with this name was elected to the throne of Bohemia; because he was quickly deposed, he became known as the "Winter King."

answer: Frederick (or Friedrich; accept Frederick V ["the fifth"] of the Palatinate or Frederick I of Bohemia or Frederick the Winter King)

C. Frederick's election occurred in the wake of this violent event, during which a mob of Protestants threw two Hapsburg envoys out of a window.

answer: (Second) Defenestration of Prague (accept answers describing someone getting thrown off a building or through a window in Prague or Praha; prompt on "defenestration" and other similar answers that do not mention Prague)

<426222>

14. After this object is discovered by a barber in a piece of bread, it is thrown into the Neva [NAY-vuh] River. For 10 points each—

A. Name this object that dresses up as a state councilor after being separated from the body of Major Kovalyov [kah-vahl-YAWF].

answer: The Nose (or Nos)

B. "The Nose" was written by this Russian author, who described the theft of an expensive garment in his story "The Overcoat."

answer: Nikolai (Vasilievich) Gogol [NIK-uh-lye GOH-gul]

C. "The Nose" and "The Overcoat" are both set in this city. A street in this city that "deceives at all hours of the day" is depicted in Gogol's story "Nevsky Prospekt" [NEV-skee pruh-SPEKT].

answer: Saint Petersburg (or Sankt-Peterburg)

<426405>

15. For 10 points each—answer the following about sulfuric [sul-FYOOR-ihk] acid:

A. This is the molecule's chemical formula.

answer: H₂SO₄ ["H two S O four"]

B. Within 5%, this is the molecular weight of sulfuric acid in grams per mole.

answer: 98.1 grams per mole (accept answers 93.2 to 103.0 grams per mole)

C. Sulfuric acid acts as this kind of substance in the lead-acid batteries used in cars. Give a one-word term, not a descriptive answer.

answer: electrolyte (or electrolytic substance; do not accept or prompt on "source of ions" or "(electrical) conductor" or "part of the circuit" or similar descriptive answers)

<427468>

16. From 1995 to 2003 this politician served as governor of New Mexico. For 10 points each—

A. Name this Libertarian Party candidate who earned over three percent of the vote in the 2016 presidential election.

answer: Gary (Earl) Johnson

B. In a televised interview Johnson failed to recognize the name of this city, which was the most populous in Syria before the country's civil war.

answer: Aleppo [uh-LEP-oh] (or Halab; accept What is Aleppo?)

C. Johnson's 2016 running mate was this former governor of Massachusetts, who was the subject of rumors that he had dropped off the Libertarian ticket to campaign for Hillary Clinton.

answer: William (Floyd) Weld (or Bill Weld)

<426674>

17. Labor leader Louis Tikas [TEE-kahss] was among those killed during this event. For 10 points each—

A. Name this 1914 "massacre" in which the Colorado National Guard attacked a tent camp housing over a thousand miners striking against the Colorado Fuel and Iron Company.

answer: Ludlow massacre

B. The Colorado Fuel and Iron Company was managed by the son of this founder of Standard Oil.

answer: John D(avison) Rockefeller (or John Davison Rockefeller Sr.)

C. This matronly labor organizer, who led a 1903 march of young mill workers to protest child labor, advocated for the strikers. A progressive news magazine now bears her name.

answer: Mother Jones (or Mary Harris Jones; accept any underlined portion)

<418893>

18. For 10 points each—answer the following about locales named "Zealand":

A. This capital city of Denmark mostly lies on the island of Zealand.

answer: Copenhagen (or København)

B. This explorer named New Zealand after the Dutch province of Zeeland, not the Danish island. Today, this man is the namesake of an Australian island once known as Van Diemen's ["demon's"] Land.

answer: Abel (Janszoon) Tasman (do not accept or prompt on "Tasmania")

C. Mount Zealand is a peak in this state's White Mountains, which were once the site of a granite formation resembling a human face called the Old Man of the Mountain.

answer: New Hampshire

<407816>

19. A 2008 *Guitar Hero* game subtitled for this band was the first entry in the series to focus primarily on a single group's music. For 10 points each—

A. Name this American rock band fronted by Steven Tyler. Their songs include "Love in an Elevator" and "Dream On."

answer: Aerosmith

B. Aerosmith experienced a resurgence in the 1980s after collaborating with Run-DMC on a new version of this song, whose chorus ends by declaring "aw, just give me a kiss."

answer: Walk This Way

C. Among the artists to join Aerosmith in performing "Walk This Way" at the Super Bowl XXXV ["35"] halftime show was this rapper, whose own songs include "Hot in Herre" and "Just a Dream."

answer: Nelly (or Cornell Iral Haynes Jr.)

<426675>

20. Pencil and paper ready. For 10 points each—answer these questions about the number 28:

A. How would 28 be expressed in Roman numerals?

answer: XXVIII [X = 10, V = 5, I = 1]

B. Since 28 equals the sum of all of its proper divisors, it belongs to what class of numbers? 6 and 496 are also in this class of numbers.

answer: perfect number(s) [28 = 14 + 7 + 4 + 2 + 1]

C. What is the units digit of 28 factorial, which equals 28 times 27 times 26 and so on down to times 1?

answer: 0 (do not accept or prompt on “none” or similar answers) [5! = 5 × 4 × 3 × 2 × 1 = 20 × 6 = 120; the units digit of every higher factorial is thus $0 \times n = 0$.]

<427684>

21. The Chinese emperor Li Yuan [lee yoo-ahn] is one of several people known as “Gaozu” [gow-zoo], or “High Founder.” For 10 points each—

A. Li Yuan established this dynasty after overthrowing Yangdi [yahh-dee], the last emperor of the Sui [“sway”] Dynasty.

answer: Tang Dynasty (or Tang Cháo)

B. Before becoming emperor, Li Yuan fought the Gök [gahk], or “Celestial” branch of this ethnicity. The Seljuk [SEL-jook] Empire was ruled by people belonging to the Oghuz [OH-gooz] branch of this ethnicity.

answer: Turks (or Turkish people(s) or Turkic people(s); accept Gök Turks or Celestial Turks or Blue Turks or Tujué or Tturka; accept Seljuk Turks or Oghuz Turks or Ghuzz Turks)

C. Li Yuan ended patronage of this foreign religion founded by Siddhartha Gautama [sid-HAR-tuh GOH-tuh-muh], though this religion's monasteries remained popular.

answer: Buddhism (or Buddhist religion; accept Mahayana Buddhism)

<395771>

22. For 10 points each—name these companies that perpetrated April Fool's pranks in 2017:

A. This fast food chain's April Fool's Day prank was an announcement for new Whopper-flavored toothpaste.

answer: Burger King (prompt on “BK”)

B. This phone company, which announced an “Un-carrier Next” plan in 2017, claimed it would release a magenta onesie to match its company color.

answer: T-Mobile (International AG) (accept T-Mobile ONEsie)

C. The train-operating company partially owned by this Richard Branson-founded conglomerate ran an April Fool's Day commercial advertising tattoo-able train tickets.

answer: Virgin Group(, Ltd.) (accept Virgin Trains or Virgin Rail Group)

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23. One poem by this author states “whatever a sun will always sing is you.” For 10 points each—

A. Name this author whose poem “i carry your heart with me” does not use spaces after punctuation marks, and has no capital letters.

answer: E. E. Cummings (or Edward Estlin Cummings)

B. The title figure of this Cummings poem is “a conscientious object-or” who is “more brave than me: more blond than you.”

answer: i sing of Olaf glad and big (prompt on “Olaf” or “i sing of Olaf”)

C. Cummings wrote “he was a handsome man” in a poem named after this “defunct” founder of a “Wild West” show.

answer: Buffalo Bill Cody (or William Frederick Cody; accept either underlined portion; accept Buffalo Bill's or Buffalo Bill's Wild West (show))

<426606>

24. In Japanese, *gairaigo* ["guy"-rye-goh] are these types of words. For 10 points each—

A. Identify these words that are “borrowed” from another language without undergoing major phonological or semantic changes. A Japanese example is *sarariman* [sah-rah-ree-mahn], from the English “salary man.”

answer: loanwords

B. Japanese transcribes loanwords with this set of characters, which are the counterpart of *hiragana* [hee-rah-gah-nah].

answer: katakana [kah-tah-kah-nah] (do not accept or prompt on “kana”)

C. A now-debunked theory claimed that the word *obrigado* [oh-bree-GAH-doh], which means “thanks” in this language spoken by European missionaries, was adapted into Japanese as the loanword *arigato* [ah-ree-gah-toh].

answer: Portuguese language (or português or língua portuguesa)

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