



VHSL Scholastic Bowl  
State Championships 2016  
Round 4  
First Period, Fifteen Tossups

1. A character in this poem says he fears another man's "skinny hand" and "glittering eye." In this poem, a man describes how the Nightmare Life-in-Death played dice with Death for the souls of various individuals. That character in this poem causes another man to become "a sadder and a wiser man" by accosting him outside a wedding to tell his story. The main character in this poem laments seeing "water, water, everywhere, nor any drop to drink," in the aftermath of his slaying of an albatross. For 10 points, name this Samuel Taylor Coleridge poem about a cursed sailor.

ANSWER: *The Rime of the Ancient Mariner*

2. This hero's infant son is thrown off the top of a wall by the cruel Neoptolemus (**nee-up-TOHL-uh-muhs**). After dueling to a draw, this hero is gifted a purple sash by Ajax. This hero loses a duel when Athena disguises herself as Deiphobus (**dee-UH-fuh-bus**) and convinces him to stop fleeing. After being killed, this hero's corpse is tied to his enemy's chariot and humiliatingly dragged around a city. This elder brother of Paris is the firstborn son of Hecuba (**HEK-yoo-buh**) and Priam (**PRY-uhm**) and is slain in single combat against Achilles. For 10 points, name this crown prince of Troy.

ANSWER: Hector

3. This composer wrote a ballet about the love triangle between the Ballerina, the Moor, and the title character. A bassoon-introduced "Berceuse" (**bair-SUZE-uh**) plays after Katschei (**KUH-shay**) is whisked into an "Infernal Dance" in a ballet by this composer that was written a year after his ballet *Petrushka*. A solo bassoon plays an unusually high-pitched melody at the start of this composer's ballet about the ritual sacrifice of a young girl. The 1913 premiere of that ballet in Paris caused its audience to riot. For 10 points, name this Russian composer of *The Firebird* and *The Rite of Spring*.

ANSWER: Igor Stravinsky [or Igor Fyodorovich Stravinsky]

4. Sects in this religion are referred to as mansions, and include the Nyabinghi (**NYE-uh-BIN-gee**). Members of this religion replace the term "we" with "I and I" in order to emphasize equality between all human beings. Two ceremonies in this religion are known as "groundation" and "reasoning", with the latter being a gathering where members take turns smoking "ganja" in order to speak with Jah. For 10 points, what religion originating in Jamaica worships Ethiopian monarch Haile Selassie as the second coming of Jesus?

ANSWER: Rastafarianism [or Rastafari movement]

5. A woman told this man that "life is a business and the only thing that changes is the merchandise," urging him to get into the "love" business. In a 2015 interview, this man claimed he was not violent and simply defended himself. An online poster said she believed in this man more than the government that hides "the cure for cancer" and AIDS; that poster was soap opera star Kate del Castillo (**caa-STEE-yoh**). This man, whose nickname means "Shorty," was arrested after being interviewed by Sean Penn. For 10 points, name this recently recaptured Mexican drug lord.

ANSWER: El Chapo [or Joaquin Archivaldo Guzman Loera]

6. This party employed newspaper writers such as "Peter Porcupine" and Noah Webster. A member of this party, Justice Samuel Chase, faced controversial impeachment charges. The Kentucky and Virginia Resolutions attacked this party's laws as violations of free speech. This party's policies persisted with the appointment of Chief Justice John Marshall, but it never held the presidency after the election of 1800. For 10 points, what Alexander Hamilton-founded political party clashed with Thomas Jefferson's Democratic-Republicans?

ANSWER: The **Federalist** Party

7. This leader advocated the concept of "Socialism in One Country," as opposed to a rival's concept of "permanent revolution." The main rival to this leader was assassinated in Mexico City by Ramon Mercader. This leader used the assassination of Sergey Kirov (**KEY-roff**) to begin the Great Purge, and this man's successor denounced his policies in the "Secret Speech." This leader may have ordered the assassination of Leon Trotsky, and he was succeeded by Nikita Khrushchev (**CREW-sheff**). For 10 points, name this leader of the Soviet Union during World War II.

ANSWER: Joseph **Stalin** [Iosif Vissarionovich **Stalin**; or Iosib **Dzugashvili**]

8. In this book, a man is receiving guests at Bellevue (**BELL-vue**) Hall when he tells a woman "if you still get pains, it's really only your fault." In this book, the author describes seeing a big white patch in that woman's throat and ponders the use of an unclean syringe. A section of this book uses the example of "Irma's Injection" and claims it was a way for the author to rid himself of unconscious guilt. For 10 points, name this 1900 book in which Sigmund Freud (**FROYD**) claims that the title concept represents the "wish fulfillment" of the unconscious.

ANSWER: *The **Interpretation of Dreams*** [or *Die **Traumdeutung***]

9. These quantities can be combined by adding their natural logs and multiplying by negative two in the Fisher's combined test. This quantity can be computed either in a one-tailed or two-tailed fashion, the former of which is calculated by finding the area under the distribution on one side of the observation. If this quantity is less than the significance level, typically 0.05 or 0.01, the null hypothesis can be rejected. For 10 points, name this quantity that is the probability of a given observation assuming the null hypothesis is true.

ANSWER: **p-values**

10. The outermost ring of this object is split into regions named after courage, liberty, equality and fraternity. Other main rings around this planet include the Galle (**GAH-luh**) ring and the Le Verrier (**luh vair-yee**) ring. Orcus is an object with a 2:3 resonance with this planet and falls under a general class of Kuiper belt objects known as plutinos. During its 1989 expedition, Voyager II photographed images of this planet's Great Dark Spot, which disappeared by 1994. For 10 points, what planet's largest moon is Titan and is the furthest planet from the Sun?

ANSWER: **Neptune**

11. In a novel by this man, the talented artist Joseph secures his mother's inheritance after the death of his conniving brother Philippe. This author of *The Black Sheep* wrote a novel about the aspiring writer Lucien Chardon opening with the section "The Two Poets." The criminal Vautrin (**VO-tran**) appears in several novels by this author of *Lost Illusions*. He wrote a novel in which the daughter of an elderly pasta-maker is seduced by Eugene de Rastignac (**RAST-eeen-yack**). For 10 points, name this French author who included *Le Pere Goriot* (**PAIR GORE-ee-oh**) in his novel series *The Human Comedy*.

ANSWER: Honore de **Balzac**

12. This country's westernmost province, Tindouf, is home to many Sahrawi refugees. This country's national oil company, Sonatrach, is the largest company in Africa. Contrary to popular belief, this country's city of Mascara did not lend its name to the cosmetic. Many *pieds-noirs* (**pee-AY NWAR**), or "black feet," left this country after it gained independence from France in 1962. After South Sudan declared independence, this country became the largest by area in Africa. For 10 points, name this Mediterranean country that borders both Morocco and Libya.

ANSWER: **Algeria** [or People's Democratic Republic of **Algeria**; or République **Algérienne** Démocratique et Populaire]

13. The cartoonist Herblock depicted this man's career as a rickety tower of mud buckets. This man was known as the "Pepsi-Cola Kid" for loans received from soda executives. This politician's chief counsel was named Roy Cohn (**CONE**). This man was attacked by an Edward R. Murrow-produced television documentary that aired on March 9, 1954. At Wheeling, West Virginia, he claimed to hold a list of 205 members of the State Department that were Communists. For 10 points, name this crusading anti-Communist Senator from Wisconsin.

ANSWER: Joseph "Joe" **McCarthy**

14. Along with thallium, this element unusually has plus 1 and plus 3 as its main oxidation states. Colloidal nanoparticles of this element are created by reduction of chloro-auroic acid. Hans Geiger (**GUY-grr**) helped run an experiment where alpha particles were sent towards a thin layer of this element, and a tiny percentage were reflected backwards, disproving the plum pudding model. This metal's alloy with silver is called electrum. The Rutherford experiment used a very thin foil of this highly malleable precious metal. For 10 points, identify this element with symbol Au.

ANSWER: **gold** [or **Au** until it is read]

15. This character's first serious girlfriend was secretary Betty Brant. He was buried alive during the "Kraven's Last Hunt" storyline and fought a superpowered serial killer in "Maximum Carnage." This character's marriage was erased in the "One More Day" storyline, which also resurrected his best friend, Harry Osborn. He first appeared in *Amazing Fantasy* issue fifteen, where he realizes that "with great power, there must also come great responsibility", after his Uncle Ben is murdered. For 10 points, name this webslinging Marvel Comics hero.

ANSWER: **Spider-Man** [or Peter **Parker**; prompt on **Peter**]



VHSL Scholastic Bowl  
State Championships 2016  
Round 4  
Directed Round

1A. John Ruskin coined what literary term referring to the practice of assigning human emotions to inanimate objects and natural phenomena?

ANSWER: **pathetic fallacy**

1B. What novel by Kate Chopin ("**show**"-PAN) ends with Edna Pontellier (**pon-TELL-ee-ay**) walking into the ocean and drowning?

ANSWER: *The **Awakening***

2A. What female governor of South Carolina gave the official Republican response to President Obama's 2016 State of the Union address?

ANSWER: Nikki **Haley** [or Nimrata Nikki **Randhawa**]

2B. What astronomical objects are known for their extreme brightness and provided the first confirmation of Einstein's theory of gravitational lensing?

ANSWER: **quasars** [or **quasi-stellar radio sources**]

3A. This is a 20-second calculation question. If the ordered pairs (x,y) (**x comma y**) are given by the parametric equations  $x = t^2 - 3$  and  $y = 4 - t$ , what ordered pair corresponds to  $t = 3$ ?

ANSWER: **(6, 1)** (**six comma one**)

3B. This is a 20-second calculation question. If the diagonals of a kite are 12 inches long and 6 inches long, what is the area of the kite?

ANSWER: **36** square inches

4A. Which Tennessee Williams play is titled for a collection of figurines owned by Amanda Wingfield, who is nicknamed "Blue Roses" by her "gentleman caller," Jim?

ANSWER: *The **Glass Menagerie***

4B. What former Maryland Governor was forced to resign the vice-presidency after he was investigated on charges of bribery and extortion?

ANSWER: Spiro Theodore **Agnew**

5A. Rodolfo takes Mimi's cold hand and sings "Che gelida manina" (**KAY juh-LEE-duh mah-NEE-nah**) in what Giacomo Puccini (**JAH-kuh-moe poo-CHEE-nee**) opera about a group of destitute friends living in an attic in Paris?

ANSWER: *La **Bohème***

5B. The damage a tornado inflicts is categorized on what scale used by the National Weather Service?

ANSWER: enhanced **Fujita** scale [or **Fujita**-Pearson scale; or **F**-scale]

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This is page 4 of 10 total pages in this round.

This is Round 4 of 4 total rounds in the VHSL State Championships 2016 question set.

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6A. What Native American tribe fought three namesake wars against the United States in their home state of Florida?

ANSWER: **Seminoles**

6B. The schoolteacher Grant Wiggins narrates what Ernest Gaines novel about an innocent man named Jefferson who is sentenced to death?

ANSWER: A **Lesson Before Dying**

7A. Many landmarks related to founder Roger Williams may be found in what Rhode Island city, the home of Brown University?

ANSWER: **Providence**

7B. Urdu is mutually intelligible with what Indo-Aryan language, the most-commonly spoken descendant of Sanskrit?

ANSWER: **Hindi** [prompt on **Hindustani**; do not accept "Hindu"]

8A. This is a 30-second calculation question. Using only nickels and/or dimes, how many ways are there to make change for a dollar?

ANSWER: **11** ways

8B. This is a 30-second calculation question. To what value does the function arc-secant of x plus arctangent of x tend as x goes to infinity?

ANSWER: **pi**

9A. Which general received the nickname of "Black Jack" due to his friendliness with members of the 10th Cavalry Regiment?

ANSWER: John J. **Pershing** [John Joseph **Pershing**; or "Black Jack" **Pershing**]

9B. In November 2015, what dramatic comic strip, focusing on Manhattan roommates Tommie, Margo, and Luann, ended after fifty-four years?

ANSWER: **Apartment 3G**

10A. Which reproductive strategy results in fewer, but more "expensive" offspring, is usually seen in stable environments near carrying capacity, and is contrasted with r selection?

ANSWER: **K** selection

10B. What moon god killed the goddess of food, Uke Mochi (**oo-KAY moe-CHEE**), causing Amaterasu to never look at him again?

ANSWER: **Tsukuyomi** (**sue-KUH-yoe-mee, but accept phonetic pronunciations**)



VHSL Scholastic Bowl  
State Championships 2016  
Round 4  
Third Period, Fifteen Tossups

1. This animal was nominated for Person of the Year for "embodying our collective id" in a *New York Times* article. A January 2016 follow-up claims to show it "turning to cannibalism" at Jay Street-Metrotech. This animal inspired a Halloween costume boasting a "soft, body-hugging grey mini dress." It was first filmed by Matt Little, who noted its resemblance to Splinter bringing dinner to the Teenage Mutant Ninja Turtles. For 10 points, what star of a September 2015 viral video was a rodent trying to carry a cheese-covered slice down a Manhattan subway staircase?

ANSWER: Pizza Rat

2. An unscrupulous character in this novel stays at the seaside resort of Ramsgate, where he seduces a woman named Georgiana. A pompous clergyman in this novel marries Charlotte Lucas after trying to woo the protagonist at the Netherfield Ball. This novel begins by ironically stating the "truth universally acknowledged that a single man in possession of a good fortune must be in want of a wife." This novel's protagonist has four sisters named Mary, Kitty, Lydia, and Jane. For 10 points, name this Jane Austen novel in which Elizabeth Bennet eventually marries Mr. Darcy.

ANSWER: Pride and Prejudice

3. This author wrote a novel featuring the poet Chum Frink and the socialist Seneca Doane. In that novel by this man, the title character is disturbed when his friend Paul Riesling shoots his wife Zilla, shattering his faith in "boosterism." The first American author to win the Nobel Prize in Literature, this man set novels in places like the fictional Gopher Prairie, Minnesota. This author created Carol Kennicott and a conformist real estate salesman living in Zenith. For 10 points, name this author who wrote novels such as *Main Street* and *Babbitt*.

ANSWER: Sinclair Lewis [or Harry Sinclair Lewis]

4. The Gothic Revival Continental Life Building is located in this city, which contains a red-brick office building named for a local brewer, co-designed by Dankmar (**dahnk-mahr**) Adler and Louis Sullivan. An inverted, weighted catenary structure in this city's Jefferson National Expansion Memorial was designed by Finnish architect Eero Saarinen (**air-oh saah-ruh-neh**) was a monument to westward expansion. For 10 points, name this Midwestern city, the home of the Gateway Arch.

ANSWER: St. Louis, Missouri

5. When this condition is removed due to a high-severity disturbance, such as a fire, paper birch, aspen, or yellow poplar can suddenly flourish. This condition is the primary factor that drives ecological succession in forests. Pioneer species often don't reproduce in the understory due to this condition, which allows hardwoods to take advantage of gaps in the crown of a closed canopy and grow taller. Trees are categorized by their level of tolerance to this condition. For 10 points, identify this condition that is created by a tree's shadow, where light is blocked.

ANSWER: shade [or darkness; or lack of sunlight; or lack of sunlight; or obvious equivalents]

6. This quantity for a known pure substance can be estimated with the Antoine (**ahn-TWAN**) equation. For mixtures, the total amount of this quantity is equal to the sum of this quantity for each component of the mixture, according to Raoult's (**rao-oo's**) law. This quantity increases with temperature in the Clausius-Clapeyron (**KLOZ-ee-us K LAP-ehr-ohn**) equation, and it equals atmospheric pressure at the boiling point. For 10 points, identify this pressure that a gaseous phase exerts above a liquid or solid phase.

ANSWER: **vapor pressure** [prompt on partial answer]

7. A leader of this country was killed at a victory parade celebrating Operation Badr (**BAH-der**). A ruler of this country was overthrown by the Free Officers Movement, which supported Muhammad Naguib (**NAH-geeb**). It joined Syria to form the short-lived United Arab Republic. A leader of this country was assassinated after signing a treaty that authorized Israel's withdrawal from the Sinai Peninsula. For 10 points, what African country has been ruled by Anwar Sadat (**SUH-dot**) and Gamal Abdel Nasser, the latter of whom nationalized the Suez Canal?

ANSWER: **Egypt** [or Arab Republic of **Egypt**]

8. The third of these pieces by Johannes Brahms, in F minor, consists of a whopping five movements. Frederic Chopin's second piece in this genre uses a funeral march for its third movement. Beethoven's challenging middle-period pieces of this type include compositions nicknamed *Les Adieux*, *Waldstein*, and *Appassionata*. A Wolfgang Amadeus Mozart piece in this genre ends with a "Rondo alla turca." Beethoven also wrote one inspired by a beautiful scene over Lake Lucerne. For 10 points, name this type of piece for a solo keyboard instrument, which include Beethoven's "Moonlight."

ANSWER: **piano sonata** [prompt on **sonata**]

9. In a novel by this author, Detectives Landsman and Berko investigate the death of a crime boss's son. That novel by this author takes place in an alternate universe in which Alaska has become the center of Jewish settlement after World War II. In another novel by this man, Sammy and Joe create an anti-fascist character named The Escapist. He won a Pulitzer for a novel about two Jewish cousins who work in the comic book industry. For 10 points, name this American author of *The Yiddish Policeman's Union* and *The Amazing Adventures of Kavalier & Clay*.

ANSWER: Michael **Chabon**

10. During this event, various people have died during dangerous crossings of the Jamarat Bridge. At this event, people go to Mina where they throw seven pebbles at three walls, one of which represents Hagar's temptation, in the "stoning of the Devil" ritual. People who participate in this event wear two white cloth sheets to obtain the state of ihram (**EE-rahm**). During this event, hundreds walk counter-clockwise around the Ka'aba (**KAH-bah**), a cube-shaped building at the center of a mosque. For 10 points, name this annual event, an Islamic pilgrimage to Mecca.

ANSWER: **hajj** [prompt on **pilgrimage** to Mecca until it is read]

11. Polymerization of a protein in this disease can be treated by inducing a fetal form of that protein with hydroxyurea (**hye-DROX-ee-yur-EE-uh**). Autosplenectomy (**auto-splen-EK-toh-mee**) can occur in this disease when cells expressing a glutamate (**GLU-tuh-mate**) to valine (**VAY-leen**) substitution cause a vaso-occlusive crisis in the spleen. That mutation that causes this disease may be prevalent due to the hetero-zygote advantage, since it confers some resistance to malaria. For 10 points, name this genetic disease in which red blood cells have a characteristic crescent shape.

ANSWER: **sickle cell** anemia

12. A territory named for this body of water consists of the Chagos Archipelago, whose residents were forcefully evicted by the British. A country in this body of water held an underwater cabinet meeting in 2009. Another country in this body of water has a capital named for Louis XV. Pieces of debris from MH370 washed up on Réunion Island in this body of water. The third-strongest earthquake ever recorded took place under this body of water, causing a deadly 2004 tsunami. For 10 points, name this ocean that contains Madagascar and Sri Lanka, and is named for an Asian subcontinent.

ANSWER: **Indian** Ocean

13. An expression involving three different versions of this quantity at three different wavelengths gives the Abbe number. This quantity minus one multiplies a difference of inverse radii in the lensmaker's equation. The arc-tangent of the ratio of two instances of this quantity is equal to Brewster's angle. The ratio of the sines of the angles of incidence is equal to a ratio of this quantity according to Snell's law. For 10 points, name this value symbolized  $n$ , which is equal to the ratio of the speed of light in the vacuum to the speed of light in the medium.

ANSWER: **index of refraction** [or **n** until it is read]

14. This man managed to return the Oracle at Delphi to the Phocians after intervening in the Second Sacred War. This man had a son of the same name with his Milesian mistress Aspasia. This man financed the construction of the Propylaea (**pro-pill-LAY-uh**) after moving the treasury of the Delian League to his capital. He gave a famous funeral oration honoring the dead youths of Athens before dying of a plague during the Peloponnesian War. For 10 points, name this orator and statesman, who held significant power during the Golden Age of Athens.

ANSWER: **Pericles**

15. These people butchered many enemies in the Campaign of the Badger Mouth and Wild Fox. They were surprisingly defeated by the Mamluks (**MAHM-lewks**) at Galilee during the battle of Ain Jalut (**JUH-loot**). These people were divided when its founder's heirs such as Jochi and Ogedei (**OH-guh-DIE**) fought amongst themselves. The founder of its empire had the birth name of Temujin. These people led both the Golden Horde khanate (**CAHN-ate**) and the Yuan (**YOO-ahn**) dynasty of China. For 10 points, name these people led by Genghis Khan.

ANSWER: **Mongols**



VHSL Scholastic Bowl  
State Championships 2016  
Round 4  
Tiebreaker/Replacement Questions

1. Ann Richards said a member of this family had a "silver foot in his mouth." A member of this family called his opponent's economic plan "voodoo economics," urged volunteerism in his "thousand points of light" speech, and fatefully declared, "Read my lips: no new taxes." Another member of this family promoted compassionate conservatism and was a Governor of Texas who won a disputed national election over Al Gore. For 10 points, name this family whose members have included Presidents elected in 1988 and 2000.

ANSWER: **Bush** [or George Herbert Walker **Bush**; or George Walker **Bush**]

2. The protagonist of this novel has a dream in which several people in animal skins dance around a gigantic wooden phallus. In this novel, the protagonist encounters a strange red-haired man with a straw hat, which inspires him to leave Munich. This novel's protagonist notices the smell of disinfectant in the air and becomes ill after eating some overripe strawberries. This novel's protagonist slumps over in his chair while watching his love interest Tadzio wading in the ocean. For 10 points, name this Thomas Mann novel about Gustave von Aschenbach's journey to a cholera-ridden Italian city.

ANSWER: **Death in Venice** [or *Der Tod in Venedig*]

3. With Lord Kelvin, this man names an effect describing the change in temperature of a real gas or liquid when forced through a valve, an action known as the throttling process. This man's second law states that the temperature of a gas doesn't change if no external work or heat exchange occurs. An experiment by this man used a falling weight to spin a wheel in water to increase its temperature, which led to his calculation that one calorie held about 4.41 of this man's namesake units. For 10 points, what English physicist gives his name to the SI unit of energy?

ANSWER: James **Joule** [or James Prescott **Joule**]

4. A community in this country's Tilaran range is home to a privately-protected "cloud forest" and the now-extinct golden toad. Monteverde is found in this country, whose coffee-producing regions include Orosí and Tarrazú. Over twenty-five percent of its land is protected by national parks that have become popular ecotourism destinations. In 2007, this nation declared its goal of becoming carbon-neutral by 2021. Its 1949 constitution abolished its military. For 10 points, San Jose is the capital of what Central American country found between Nicaragua and Panama?

ANSWER: **Costa Rica** [Republic of **Costa Rica**; or Republica de **Costa Rica**]

5. In a fresco, this man is wearing purple and is flanked by the goddess Victoria and the Goddess of Liberty. That fresco depicting this man's "apotheosis" is by Constantino Brumidi. The focus of the Lansdowne portrait, this man was painted in a boat by Emanuel Leutze. He is depicted as a child holding an ax in Grant Wood's painting *Parson Weems' Fable*, in which he stands near a chopped down cherry tree. For 10 points, name this American President who is depicted "crossing the Delaware" in a painting about his Revolutionary War career.

ANSWER: George **Washington**

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This is page 9 of 10 total pages in this round.

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What animal was depicted in motion in an 1878 photographic study by Eadweard Muybridge that proved all four of its limbs were off the ground in one of its gaits?

ANSWER: horses

How many 0's does 25-factorial end in, when written in base 10?

ANSWER: 6 zeroes