

New Trier Scobol Solo 2013

Round 4



1. After this person died, one of his regents faced a revolt called the Lamian War. The stealing of this person's body precipitated the War of the Diadochi [dy-AA-doh-kee], during which his son-in-law Perdiccas died. Earlier, this man defeated King Porus at the Hydaspes River, and this man and his father defeated the Sacred Band of Thebes at the Battle of Chaeronea [kair-uh-NEE-uh]. Because he was unable to find its ends to untie it, this man used his sword to cut the Gordian Knot. Name this leader who defeated Darius the Third at the Battle of Gaugamela, a son of Phillip the Second who was a king of Macedonia.

Answer: Alexander the Great [accept Alexander III of Macedon, prompt on Alexander]

2. This work is quoted in each movement of Ives' *Concord Sonata*, and the beginning of this piece's second movement contains many alternated 32nd notes and dotted 16th notes played by the cellos and the violas. This work ends with 29 C major fortissimo chords following a long coda. This symphony premiered immediately after another of its composer's works in 1808 but is numbered before that work. This C minor symphony's opening short-short-short long motif has been described as "fate knocking at the door". Name this symphony by Beethoven which comes before his "Pastoral" symphony.

Answer: Beethoven's symphony Number 5 in C minor [accept similar answers including all three underlined parts; do not require "Beethoven" after he is named; accept Beethoven's opus 67]

3. The caption element must be a direct child of this element, which used to be popular for web page layout but has been superseded for that purpose by CSS with div tags. Zebra striping may be used to make these parts of web pages easier to read. Its children, which can be grouped into thead ["T head"], tbody ["T body"], and tfoot ["T foot"], are tr ["T R"] sections; they in turn contain th ["T H"] and td ["T D"] tags that produce cells. Name this HTML tag that creates a grid with rows and columns.

Answer: table tag

4. This battle was supplemented by John Cadwalader's feint on Bordentown in an attempt to cut off enemy supplies. At its start, Henry Knox deployed an artillery line overlooking King and Queen Streets, while John Sullivan cut off the enemy's escape route by securing a bridge over Assunpink Creek. Johann Rall and his Hessians were defeated at this battle, and a week later American forces were victorious again at Princeton. Name this battle of the American Revolution which began after George Washington crossed the Delaware River into the modern-day capital of New Jersey.

Answer: First Battle of Trenton [do not accept or prompt on "Second Battle of Trenton" or "Battle of Assunpink Creek"]

5. A museum in this city houses a reproduction of the Pergamon Altar. That building is located on this city's Museum Island, located in the former location of the city of Cölln. Just before joining the Havel River in Spandau, the Spree River flows through this city. Its borough of Pankow includes Schönhausen Palace, and this city also includes the public square Alexanderplatz and Charlottenburg Palace. This city's airport contains a memorial to the airlift that supplied this city after World War II, and this city also houses the Reichstag. Name this home of the Brandenburg Gate, the capital of Germany.

Answer: **Berlin**, Germany

6. A converter named for this concept is in cars with automatic transmissions instead of a clutch, allowing drivers to use the brakes without harming the car. To find this quantity on a loop of wire, start with the product of current times vector area, and cross that with the external magnetic field. Work can be found by integrating this quantity with respect to angle, and this quantity is equal to the time derivative of angular momentum. Name this quantity equal to both moment of inertia times angular acceleration and to position vector cross force, the rotational analogue of force.

Answer: **torque**

7. This religion is believed to have originated the Nowruz festival celebrated on the March equinox. Adherents of this religion wear white vests with pockets for collecting good deeds, and cords made of seventy-two threads that are tied and untied several times daily. Only nine of this religion's temples house the Atash Behram, a collection of sixteen types of fire. A group of seventeen hymns called the Gathas are found in this religion's holy text, the Avesta. This religion centers around the clash between the evil Angra Mainyu and the good Ahura Mazda. Identify this Persian religion named for its founding prophet.

Answer: **Zoroastrianism** [or **Zarathustrianism**; accept **Mazdaism** before "Ahura Mazda"]

8. One character in this work has a face so smooth that the narrator wonders if he is a gelding or a mare. Another character is as meek as a maid even though he fought in fifteen battles. Another character in this work is well-traveled, including three trips to Jerusalem, and has been married five times. That character asks for all women to find men who are young and meek after talking about a knight who learns what women want. It takes place during a pilgrimage to a shrine of Thomas Becket. Name this collection of stories told by a Pardoner, a Knight, the Wife of Bath, and others, written by Geoffrey Chaucer.

Answer: *The* **Canterbury Tales**

9. A nitrate of this element is used to create picric [PIK-rik] acid in the Wolffenstein–Böters reaction, and the previous name used for thiols [“THIGH”-awlz] came about because of their ability to bond with this element. This is the cause of Minamata disease, and the use of this element to make a vaccine preservative called Thiomersal [“thigh”-o-MER-sul] is now in decline because of rumored health effects. Because this element has a high boiling point and a high coefficient of expansion in addition to being a dense liquid, it has traditionally been used in barometers and thermometers. Name this element formerly known as quicksilver whose chemical symbol is Hg.

Answer: mercury [prompt on Hg]

10. In this novel, Mrs. McKee boasts that her husband has photographed her 127 times at a party where the protagonist admits to getting drunk for the second time in his life. The title character of this novel looks up to Dan Cody and supposedly attended Oxford for a while. His love interest runs over Myrtle Wilson while driving a yellow car. The narrator of this novel is attracted to Jordan Baker, while his cousin Daisy Buchanan is attracted to a man who lives in West Egg on Long Island and throws very lavish parties. Name this novel set in the 1920’s by F. Scott Fitzgerald.

Answer: *The Great Gatsby*

11. Gottlob Frege [FRAY-guh] wrote that attributing this property to a statement does not add value to the statement, which is a deflationary approach to this. Alfred Tarski believed sentences could be judged for this quality and set out criteria for doing so. Like Kurt Gödel [GUR-dul], Tarski also wrote that some sentences with this property could not be proved. This quality is sometimes considered equivalent to the number one in Boolean algebra, and this is sometimes confused with validity. Name this concept that in some approaches is used to describe statements that match reality, in contrast to falsehood.

Answer: truth [or true]

12. This poet writes that the title concept of one poem “visits with inconstant glance / Each human heart and countenance”. Another of his poems describes that which “chariotest to their dark wintry bed / The wingéd seeds”. This author of “Hymn to Intellectual Beauty” described a certain “trumpet of a prophecy” as “the breath of autumn’s being”. This man also wrote of “a traveler from an antique land” who describes a statue on which appears the engraving “Look on my works, ye Mighty, and despair!” Name this poet of “Ode to the West Wind” and “Ozymandias”.

Answer: Percy Bysshe Shelley

13. One work by this painter shows a piano player wearing a white dress with a black line, and several of his paintings show one woman giving a piano lesson to another one. This painter made several portraits of painters Alfred Sisley and Claude Monet [moh-nay], and he showed two women bending over the back of a bench to talk to a man at a table in an outdoor dancing scene in his *Dance at le moulin de la galette*. One of his paintings is *A Girl With a Watering Can*. Name this French impressionist who showed a woman holding a dog at a busy table in his *Luncheon of the Boating Party*.

Answer: (Pierre-)Auguste **Renoir** [ren-war]

14. The controversial Milwaukee protocol treats this disease by using ketamine [KEH-tuh-meen] to induce a temporary coma, and the presence of Negri bodies is used to diagnose it. It is the most widespread illness caused by a lyssavirus [LISS-uh-“virus”]. In 1885, nine-year-old Joseph Meister survived this disease after receiving a new vaccine developed by Louis Pasteur. The major reservoir of this disease in North America is bats, and the high density of viral particles in salivary glands leads to the characteristic foaming at the mouth. Name this disease of the central nervous system that can cause aggressive behavior in dogs and other mammals.

Answer: **rabies**

15. Once this woman became famous, she joined the staff of congressman John Conyers after moving to Detroit. Because her legal case would have likely dragged on, attorneys supporting her pursued the case of Aurelia Browder instead. Her autobiography *My Story* details her decision not to listen to James Edwards, which led to her arrest on December 1, 1955. Until then, she had worked as a seamstress and as a secretary for the local branch of the NAACP. Name this African-American woman whose refusal to give up her seat led to the Montgomery bus boycott.

Answer: Rosa (Louis **McCauley**) **Parks** [accept either underlined name]

16. This country claimed that it killed Abu Mohammad al-Golani of the Nusra Front in its Latakia province in October 2013. The Ghouta attack in this country in August 2013 caused U.S. President Obama to state that this country had crossed a “red line”. In response, Obama and Russian President Vladimir Putin supported a U.N. resolution supporting inspections by the Organization for the Prohibition of Chemical Weapons. Its cities of Daraa [DAHR-ah-ah] and Homs have seen heavy fighting in its civil war, which started in 2011. Name this country where rebel groups are trying to overthrow Ba’athist president Bashar al-Assad.

Answer: **Syria**(n Arab Republic)

17. In one of this composer's operas, leaves grow on the pope's staff, and the title character finds the home of the goddess Venus. Another of this composer's operas was based on Shakespeare's *Measure for Measure*. This composer of *The Ban on Love* wrote an opera in which Daland's daughter Senta throws herself into the ocean and later ascends to Heaven with her lover. Along with *Tannhäuser* [TAHN-hoy-zur] and *The Flying Dutchman*, he composed a group of operas that begin when Alberich the Dwarf gives up on love and steals the Rheingold. Name this composer of the *Ring of the Nibelung* cycle.

Answer: (Wilhelm) Richard **Wagner** [REEK-hart VAHG-nur]

18. These numbers are the subject of the bounded gap theorem proved by Tom Zhang in 2013. Their spaces are darkened when drawing an Ulam spiral, which demonstrates that several quadratics with a leading coefficient of four generate several of these numbers. Pairs of these numbers are added in Goldbach's conjecture, and pairs that differ by two are called twins. Unique products of these numbers are the basis of the fundamental theorem of arithmetic. Name these numbers left by the Sieve of Eratosthenes that are not composite, meaning that their only factors are one and themselves.

Answer: **prime** numbers or **primes** [accept **twin primes**]

19. Henry Stimson attempted to stabilize this country in 1927 with the Pact of Espino Negro. This country was led during the 1990s by Violeta Chamorro, whose husband had been assassinated for opposing the successors of this country's dictator Anastasio Somoza. The group that overthrew the last ruler of the Somoza dynasty was named for a leader of the 1930s resistance against the United States, Augusto César Sandino. This Central American country was a focus of Ronald Reagan's foreign policy, leading to the Iran-Contra Affair. Name this country headed by Daniel Ortega, whose capital is Managua.

Answer: (Republic of) **Nicaragua**

20. One author from this country wrote about a fictional character who writes the novel *Air Chrysalis*. In a work by another author from this country, Father Dosen gives the protagonist a check shortly before that character burns down the title structure. Another work from this country has a blank chapter titled "Vanished into the Clouds" and was written in the 11th century. Name this country whose works include *1Q84* and *The Temple of the Golden Pavilion*, written respectively by Haruki Murakami and Yukio Mishima, as well as *The Tale of Genji*.

Answer: **Japan**

TB. When two values of this vector quantity are added together, you are supposed to divide the initial sum by one plus the product of the values over the maximum value of this quantity squared. This vector quantity's magnitude is squared and multiplied by half of fluid density when Bernoulli's principle is written in terms of pressure. This quantity is crossed with magnetic field strength and multiplied by charge to find the force of a magnetic field. The magnitude of this vector quantity is squared and divided by radius to find centripetal acceleration. Name this vector quantity equal to displacement divided by time.

Answer: velocity

TB. Poor Hindus may request for a simplified version of this ritual called *kanthi-badal*, but standard versions involve taking seven steps around a fire. In Shinto, this ceremony involves taking three sips each from three cups of *sake* [sah-keh], while the *walimah* feast comes after Muslim ones. A *get* reverses the Jewish version, which takes place under a *chuppah* [KOO-pah] and ends with the crushing of a glass under one participant's foot. 1 Corinthians 13 ["first Corinthians, chapter thirteen"] is often read at the Christian version of this ceremony. Name this practice which traditionally involves the exchange of rings.

Answer: marriages or matrimony or weddings [or vivaah; or kekkonshiki; or nikah; or erusin or nissuin]

TB. Identify the color of a dye used in Tyre that thus became associated with royalty, describes the United States' military award given to those wounded or killed in action, and is the color of eggplants and plums.

Answer: purple