

# Scobol Solo 2017

## Packet 11 (Round 11)



1. Give the most specific answer that's true for all the clues. If  $a$  and  $b$  are constants, then the graph of  $\left|\frac{x}{a}\right| + \left|\frac{y}{b}\right| = 1$  ["the absolute value of  $x$  over  $a$ , plus the absolute value of  $y$  over  $b$ , equals 1"] is this shape. Regular hexagons can be tiled with three copies of this shape, oriented differently. Connecting the midpoints of a rectangle's sides gives this shape. In this kind of quadrilateral, the diagonals bisect the angles and are each other's perpendicular bisectors. If this kind of shape is equi-angular, it is a square. Name this type of quadrilateral with four congruent sides.

Answer: rhombus(es) [or rhomboid(s) or rhombi]

2. One painting showing somebody using this general type of vehicle was the first painting based on Tennyson's *The Lady of Shalott*, and was made by John William Waterhouse. Famous paintings of John Biglin and Max Schmitt show them using this general type of vehicle and were made by Thomas Eakins [AY-kinz]. These vehicles are shown in similar slanted positions but with opposite outlooks in *Breezing Up* and another painting by Winslow Homer, *The Gulf Stream*. Name this type of vehicle that an Emanuel Gottlieb Leutze [LOYT-zuh] painting depicted just before the Battle of Trenton in *Washington Crossing the Delaware*.

Answer: boat(s) or ship(s) [accept scull]

3. The room where this person died in Dolma-bahce [dole-mah-BAH-chay] Palace has its clocks permanently set to 9:05 to commemorate his death. This leader convinced his country to adopt the Swiss Civil Code, and he is the last leader to get his country to adopt the Gregorian calendar. This person started a revolution rejecting the Treaty of Sèvres [sev-ruh], allowing İsmet İnönü to negotiate the Treaty of Lausanne. This person had his country adopt the Latin alphabet, and one of his last reforms required all citizens to use surnames. He also ended sharia courts to secularize his country. Name this leader who, following the collapse of the Ottoman Empire, became the first leader of Turkey.

Answer: (Mustafa Kemal) Atatürk [accept any underlined name]

4. In this play, the Prince of Arragon makes a decision based on the quote "Who chooseth me shall get as much as he deserves" as part of an unsuccessful attempt to marry a wealthy woman in Belmont. Later in this play, that woman states "It blesseth him that gives and him that takes" during her speech about "The quality of mercy" that she gives while pretending to be a doctor of the law. In this play, Portia gives that speech directed at a man who asks "If you prick us do we not bleed?" in a monologue beginning "I am a Jew." Name this Shakespeare play whose title character is Antonio, and in which the moneylender Shylock appears.

Answer: *The Merchant of Venice*

5. The last chapter of one book by this person asks “What is man?” and ends by saying “We have not yet seen what man can make of man.” Another book by this person explained verbal acquisition through six methods: mand, tact, audience relation, echoic, textual, and intraverbal. That book by this person, which Noam Chomsky sharply criticized, was *Verbal Behavior*. Professor Burriss visits T. E. Frazier’s planned community in a novel written by this person. A research tool named for this person is also called an operant conditioning chamber. Name this author of *Walden Two* and *Beyond Freedom and Dignity* who promoted behaviorism.

Answer: B(urrhus) F(rederic) Skinner

**Check the score.**

6. This musician’s last recorded concert was at the Olatunji [oh-luh-TOON-jee] Center in New York and featured his second wife, Alice, on piano. At that concert, this person performed “Ogunde” [oh-GOON-day] from his album *Expression*. This performer’s first live album features Reggie Workman on bass on side 1, but he is replaced with Jimmy Garrison on side 2. This person often performed with McCoy Tyner on piano and Elvin Jones on drums. This person’s first wife is the namesake of his song “Naima” [nah-EE-mah], which is on his album *Giant Steps*. Name this jazz saxophonist who played with “Cannonball” Adderley on Miles Davis’ album *Kind of Blue*, and who recorded *A Love Supreme*.

Answer: John (William) Coltrane

7. The complex that promotes this phase of mitosis [pause] breaks down maturation-promoting factor by releasing cyclin [“SIGH”-klin] B. The ligase [LIE-gayss] that starts this stage is called cyclo·some. The genome instability that occurs during this phase primarily comes from sister chromatids [KROH-muh-tidz] fusing to form chromatin [KROH-muh-tin] bridges. This phase occurs when separ·ase is split from securin and cleaves cohesin [koh-HEE-sin], allowing the separation of sister chromatids. At the end of this stage, the spindle has pulled genetic material to opposite ends of the cell. Name this step in mitosis that takes place between meta·phase and telo·phase.

Answer: ana·phase

8. In a story by this writer, Janine runs around a fort while feeling frustrated in her marriage to Marcel. In a novel by this author, a magistrate takes out a crucifix and asks the narrator whether he knows who it is; the magistrate asks “Do you wish my life to have no meaning?” when the narrator says he does not believe in God. This author of “The Adulterous Woman”, which is in the collection *Exile and the Kingdom*, also wrote a novel in which Dr. Castel tries to develop a serum to help Dr. Bernard Rieux [ree-yoo] treat his patients. Name this Algerian-born existentialist who wrote *The Plague* and *The Stranger*.

Answer: Albert Camus [al-bair ka-moo]

9. This state's most recent Democratic governor lost a controversial election in 2002 and was later jailed for corruption. That person, Don Siegelman [SEE-gul-mun], lost to Bob Riley. More recently, Kay Ivey became governor of this state, replacing Robert Bentley after he was caught using state funds to conceal an affair with a political adviser. Doug Jones is this state's Democratic nominee for U.S. senator; he is running against a Republican who was repeatedly removed from being this state's chief justice because he defied other courts' orders. That Republican defeated incumbent Luther Strange and is named Roy Moore. Name this state in which Jones and Moore are running to fill Jeff Sessions' former Senate seat.

Answer: Alabama

10. This Supreme Court case strengthened the earlier *McLaughlin v. Florida* decision. When this case was decided it was not widely known that one of the plaintiffs was of Native American ancestry. In the initial trial before this Supreme Court case, the judge ruled that the plaintiffs should serve a year in jail or leave the state they lived in for 25 years. This Supreme Court decision invalidated the Racial Integrity Act of 1924. The *Obergefell v. Hodges* ruling referred to Earl Warren's ruling in this case. Name this 1967 Supreme Court decision that struck down anti-miscegenation [mis-uh-juh-"nation"] statutes, permitting interracial marriage.

Answer: Loving v. Virginia [prompt on Virginia]

**Check the score.**

11. A recently-created category for these phenomena is called low-aspect-ratio layered ejecta. It is believed that those phenomena erode into "pedestal" versions. Some of the largest examples of these forms are called multi-ringed basins, such as the Aitken basin at the south pole of the Moon. Many large bodies have few of these landforms because of tectonic activity or because they are young, but Callisto, Ganymede, and the Earth's Moon have many of these forms. These landforms often exist at the peaks of volcanoes. Name these circular depressions on surfaces, often caused by the impact of a meteor hitting a planet or moon.

Answer: (impact) craters

12. This character is described as "dishonest, hard, cool, insolent, and deceptive". She lives with her aunt, who is described as being about a thousand years old. This character states that her father died the day after a man from Biloxi, Tennessee left her house; that man fainted at this person's friend's wedding near where this character lived in Louisville. This woman has a romantic relationship with the narrator of the novel she is in, whom she tells that his next door neighbor is obsessed with her married friend Daisy. This woman cheated to win a golf tournament. Name this friend of Nick Carraway in *The Great Gatsby*.

Answer: Jordan Baker [accept either]

13. The Buduma [boo-DOO-mah] people live on the islands of this lake. This lake is the remnant of the former world’s largest freshwater lake, which flourished about 1,000 years ago. A recent proposal is to divert part of the Ubangi [yoo-BANG-ee] River into this lake. 90% of this lake’s water is provided by the Chari River, which enters this lake after flowing north through Sarh, a city formerly called Fort Archambault [ar-sham-bawl]. Its low depth causes significant variation in size, and from 1960 to 2000 this lake’s surface shrank by over 90%. Name this lake bordered by Niger, Nigeria, Cameroon, and its namesake country in north central Africa, just north of that country’s capital of N’Djamena [un-zhah-MAY-nah].

Answer: Lake Chad

14. This city was surrendered to Lewis and Thomas Kirke, who were sent by their brother David, in the Anglo-French War in 1629. In the Revolutionary War battle named for this city, Daniel Morgan was taken prisoner and Richard Montgomery was killed, giving the British their first major victory. The French had their last success in the French and Indian War just outside this city at the Battle of Sainte-Foy. In another battle near this city, the leaders of both sides—Louis-Joseph de Montcalm [loo-ee zhoh-seff day mawn-kawlm] and James Wolfe—both died. That 1759 battle near this city was the Battle of the Plains of Abraham. Identify this city that is the capital of its namesake Canadian province.

Answer: Quebec City, Quebec

15. An experiment to verify the existence of this entity used a moving parallel-plate capacitor and was conducted by Frederick Trouton and H. R. Noble. In early interpretations of the Fizeau experiment, 1 minus the reciprocal of the index of refraction squared was used as the coefficient of drag produced by this entity. In another experiment that sought to measure this entity, a mercury bath contained a sandstone block on top of which an interferometer [IN-tur-fuh-RAH-mih-tur] was placed by Albert Michelson and Edward Morley. Special relativity explains why this entity does not need to exist for physics to make sense. Name this medium through which light was believed to propagate.

Answer: luminiferous Äther

***Check the score.***

16. Two posthumously published works by this composer are called “Grand Duos”: his violin sonata in A major and his piano sonata in C major for piano four hands, the latter of which was hypothesized to be this composer’s lost Gastein [gah-shtyne] Symphony. Due in part to differences in the amount of time needed for performances, this composer’s 6th and 9th symphonies are nicknamed “Little C major” and “Great C major”. This composer wrote incidental music for *Rosamunde* [roh-sah-MOON-duh] that is speculated to have belonged in his 8th symphony. Name this 19th-century Austrian composer whose 8th symphony is nicknamed “Unfinished”.

Answer: Franz (Peter) Schubert

17. According to Shakespeare’s 34th sonnet, these objects hide “thy bravery in their rotten smoke”. A poem written from the point of view of one of these objects ends “Like a child from the womb, like a ghost from the tomb, / I arise and unbuild it again.” That poem, which states, “I am the daughter of Earth and Water, / And the nursling of the Sky,” is by Percy Bysshe Shelley. A poem that mentions these things in its first line ends “And then my heart with pleasure fills, / And dances with the daffodils.” Name these objects that the speaker of a William Wordsworth poem “wandered lonely as” one of.

Answer: clouds

18. After his first wife died, this man produced six sons with his second wife, Keturah [kih-TOOR-ah], after having gone to Ephron the Hittite and buying the cave of Machpelah [mahk-PEE-lah] to bury his first wife in. This person separated from his nephew because of a disagreement between their shepherds, but he pleaded with God to save his nephew’s home city, Sodom. This man’s first son was born to his wife’s handmaiden Hagar [HAY-gar]. This man was told to go to Mount Moriah [mah-“RYE”-uh] and sacrifice his second son, but an angel stopped him at the last second, saving Isaac. Name this character from Genesis, the first Jewish patriarch.

Answer: Abraham [or Avraham; accept Abram or Avram]

19. According to Suetonius [sweh-TOH-nee-us], nobody was allowed to leave performances when this person sang, so some men pretended to die so their bodies would be carried out. Several historians claim that this person’s desire to marry Poppæa [“pop”-EE-uh] Sabina caused him to convince his mother to travel in a collapsible boat, but she survived the journey. Seneca the Younger tutored this person and was forced to commit suicide for his alleged role in the Pisonian [pih-SOH-nee-un] conspiracy against this person. This son of Agrippina [AG-rip-“EYE”-nuh] the Younger eventually committed suicide, ending the Julio-Claudian dynasty. Name this Roman Emperor who ruled in 64 CE, during the Great Fire of Rome.

Answer: Nero (Claudius Caesar Augustus Germanicus) [do not prompt or accept any answer that does not start with Nero or Roman Emperor Nero]

20. A compound of potassium, iron, and this an-ion is used in the first step of sepia [SEE-pee-uh] toning. A process named for this anion, also called the MacArthur–Forrest process, is a common way to extract gold and is described by the Elsner equation. Many compounds with this anion inhibit cytochrome C oxidase, which means that they stop the production of ATP and prevent animal cells from using oxygen, causing death. Peach pits and bitter almonds contain this anion’s compound with hydrogen, which was also the active compound in the Zyklon B gas used by the Nazis. Name this anion that consists of carbon triple-bonded to nitrogen.

Answer: cyanide ion [accept cyanides or cyanogens; prompt on nitrile group]

***This is the end of regulation. Check the score. If it is tied, proceed to overtime tossups. If it is not tied, the game is over.***

<sup>TB</sup>21. This composer's only symphony was called "incompetence pushed to dogmatic lengths" by Charles Gounod [sharl goo-noh]. The first movement of that D-minor symphony references Ludwig Beethoven's 16th and final string quartet, and the second movement prominently uses an English horn. This composer's *Sonata in A major for Violin and Piano* was first performed by Eugène Ysaÿe [ooh-zhen ee-zah-ee] at Ysaÿe's wedding and ends with an *allegretto poco mosso* [ahl-leg-RET-toh poh-koh MOHSS-soh] movement. Name this 19th-century Belgian composer who used Thomas Aquinas' "Panis Angelicus" in his *Messe à trois voix* [mess ah twah vwah] and who also wrote the oratorio *Les Béatitudes* ["lace" beh-ah-tee-tood].

Answer: César(-Auguste-Jean-Guillaume-Hubert) Franck

***If the score is still tied, continue. If it is not tied, the game is over.***

<sup>TB</sup>22. The deflationary theorem of this concept claims that a speaker asserts this concept implicitly. Alfred Tarski attempted to avoid a paradox within formalized languages by developing the semantic theorem of this concept. Another theory of this concept equates it with the coherence of a system. The correspondence theory of this concept is based on a relationship between a statement and the world. In Boolean algebra, this concept is often treated the same as the number 1. "Tables" named for this concept are used to analyze logical expressions. Name this concept applied to factual statements that are not false.

Answer: truth or true

***If the score is still tied, continue. If it is not tied, the game is over.***

<sup>TB</sup>23. The online newspaper on this website is *The Signpost*. This website is the most prominent website owned by a foundation headed by Christophe Henner and Katherine Maher. This website was started in 2001 by Larry Sanger and Jimmy Wales. Its logo is a sphere made of puzzle pieces, with each piece having a letter from a different language. Name this online encyclopedia that can be edited by anybody with an account.

Answer: Wikipedia

***There are no more overtime questions available. If the score is still tied, contact the control room for further instructions. If it is not tied, the game is over.***