1. Interdisciplinary
In the book Tom Jones, this is the name of the philosopher who lives with Allworthy. In Flatland, it is the last name of the narrator. It is used to describe matrices that have the same number of rows and columns, and it is a common name for certain locations in cities, such as Trafalgar in London, Tiananmen in China, and Times in New York City. Name these quadrilaterals with congruent sides and angles.

ANSWER: Square(s)

2. Pyramidal Math (10 Seconds)
This adjective is used to describe polygons on which you can use the standard formula for the number of diagonals. A subset of connected shapes, it refers to any set of points which contains all of the segments connecting every pair of its points. Give this term applied to polygons in which all of the interior angles are less than one hundred eighty degrees and which therefore completely contain all of their diagonals.

ANSWER: Convex

3. World Literature
The title character of this novel finds out he has a son of the same name when the boy is eleven. The boy’s mother dies by a snake bite, and that boy eventually takes the father’s money and runs away. The father spends many years working as a ferryman with Vasudeva contemplating the river. This occurs after he has joined the Samanas and followed a well-known holy man. Name this work set in ancient India by Hermann Hesse.

ANSWER: Siddhartha

4. Current Events
A month ago, this country contained Abu Ghadiya, a man linked to the Baathist and Al Qaeda movements, in the town of Abu Kamal. An attempt to capture him turned violent, and this country claims that eight civilians died and that the attempt amounts to terrorist aggression. Ghadiya died in the attack, which was carried out by the United States and launched from Iraq. Name this nation still ruled by the Baath Party and the Assad family whose capital is Damascus.

ANSWER: Syria

5. Biology
Some newly discovered ones are called by the acronym ARMAN. Though scientists are now finding them in a wide variety of environments, these organisms are often associated with high temperatures or high concentrations of salt. Name these prokaryotes classified by Carl Woese in a separate domain from bacteria.

ANSWER: Archaea (accept Archaebacteria and different word endings, prompt Thermophiles or Extremophiles)
6. Music
(Note to moderator: Schoenberg is pronounced SCHEN-berg.) Music of this type may have begun in 1907 with the piece Ich Darf Nicht Dankend, or it may have started earlier with a bagatelle by Franz Liszt. One of the composers closely associated with this term did not like it and suggested using the prefix pan- rather than the more common prefix. It often is connected to the Second Viennese School and twelve-tone music, and it was developed by Arnold Schoenberg and Alban Berg. Identify this type of music that does not have a key.

ANSWER: Atonal(ity) (prompt Pantonal(ity) or Twelve Tone)

7. United States History
It expired in forty-nine states in 1976 and in the last state in 1986. A similar bill was vetoed by President Buchanan, but the rise of the Republican Party and secession of Southern states allowed this bill to become law in 1862. People who aided the Confederacy were ineligible, and other requirements stated that you had to be at least twenty-one, the head of a family, or a United States veteran. Many of the people who took advantage of it were freed slaves or children of farmers. Name this law that allowed people to claim 160 acres of government land.

ANSWER: Homestead (Act)

8. Physics (30 Seconds)
Include units. An object explodes into three pieces with equal masses. Find the speed of the third piece if the first two pieces travel at right angles with each other and each have a speed of the square root of two meters per second.

ANSWER: 2 Meters Per Second

9. Vocabulary
This is the belief that humans are free and responsible but are unable to comprehend the world. Some people argue that it refers to a cultural movement rather than a philosophy, beginning with Martin Heidegger or Soren Kierkegaard. Give this term associated with intellectuals during the middle of the twentieth century and the book Being and Nothingness.

ANSWER: Existentialism (or Existentialist)

10. Religion/Mythology
The two most famous ones are associated with a town in Ionia and a town near Naples. The one near Naples oversaw the Apollonian Oracle and lived in a cave in the Greek colony of Cumae. She helped Aeneas visit his father in the underworld. Name these women, often associated with oracles, who could predict the future.

ANSWER: Sibyl(s)
11. Pop Culture
She voiced King Neptune’s daughter in The Spongebob Squarepants Movie and played Grace MacLean in The Horse Whisperer. She will soon be seen in theatres as Silken Floss in The Spirit, and she is now in theatres as Anna in He’s Just Not That Into You. A few months ago, she joked that she was engaged to Barack Obama. Name this actress who has been in Lost In Translation, Girl With A Pearl Earring, The Nanny Diaries, and The Other Boleyn Girl.

ANSWER: (Scarlett) Johansson

12. Geometry/Trigonometry (30 Seconds)
Ignore units. Find the area of a rectangle if its width is five and the length of its diagonal is the square root of seventy-four.

ANSWER: 35

13. Nonfiction
Some of his essay collections are titled The Pump House Gang, The Purple Decades, and The Kandy-Kolored Tangerine-Flake Streamline Baby. Though he has written some novels, he originally made his reputation as a journalist. He has described a party thrown by Leonard Bernstein for The Black Panthers, the exploits of Ken Kesey and The Merry Pranksters, and our space program. Name this author of The Electric Kool-Aid Acid Test and The Right Stuff.

ANSWER: (Tom) Wolfe (accept Thomas Wolfe or just Wolfe, since that is his actual name)

14. British Literature
Give this character’s name as it is in Shakespeare’s plays. Like Falstaff, he appears in two of them. In Antony and Cleopatra, he wins a big sea battle, and much of the conflict in the play revolves around Antony’s marriage to his sister. In another play, he says, “Upon the right hand I; keep thou the left.” Name this leader who joins with Marc Antony and Lepidus to form a Triumvirate.

ANSWER: Octavius (Caesar)

15. Geography/Earth Science/Astronomy
This city contains a national monument named Monas, which is a huge obelisk with gold at the top and museums at the bottom. Its population is close to nine million, making it the largest city on an island anywhere in the world. Located at the Northwest corner of Java, name this capital of Indonesia.

ANSWER: Jakarta
16. Algebra (30 Seconds)
The first copier prints out one thousand pages per hour and begins at twelve o’clock. The second copier prints out one thousand four hundred pages per hour and begins one hour later. At what time will they have printed out a combined five thousand pages?

ANSWER: 2:40

17. Art/Architecture
This is the name of several works, including a painting traditionally attributed to Goya, though it probably was done by his friend Asensio Julia. The foreground of the painting shows people and animals fleeing, and much of the painting is taken up by a naked giant. This title has also been attributed to statues of Nero and Constantine. The most famous statue of this name was destroyed by an earthquake in 226 BC. Give this title applied to one of the seven wonders of the world, a statue of Helios at Rhodes.

ANSWER: (The) Colossus (or Coloso) (prompt Giant, accept additional information)

18. Chemistry
In isolation, these have a half-life of approximately ten minutes, but they are very stable where they are usually found. Their discovery paved the way for the creation of elements heavier than Uranium and the atomic bomb, and they were initially isolated by bombarding light elements with high-energy alpha particles. The only stable isotope that does not contain any of them is Protium. The Nobel Prize was awarded in 1935 to James Chadwick for identifying them. Name these subatomic particles that are slightly more massive than protons and have no electric charge.

ANSWER: Neutron(s)

19. United States Literature
Give the first and last name of the female character referred to by the passage: “There she beheld another countenance, of a man well stricken in years, a pale, thin, scholar-like visage, with eyes dim and bleared by the lamp-light.” She is imagining her husband, who is rumored never to have reached the United States. This vision comes while she stands on a scaffold holding her infant girl. The baby is the daughter of Reverend Arthur Dimmesdale. Name this protagonist of Nathaniel Hawthorne’s The Scarlet Letter.

ANSWER: Hester Prynne (prompt either half)
20. World History
He sent John Moffat to negotiate with Lobengula, which resulted in the Rudd Concession, and he later took control of the Lippert Concession. He once said, “I would annex the planets if I could.” In 1895, after a failed raid against Paul Kruger, he was forced to resign from being Prime Minister of the Cape Colony, and he moved to a country that had been named after him. Name this founder of De Beers Diamonds who, in his will, created scholarships to the University of Oxford.

ANSWER: (Cecil John) Rhodes

Tiebreakers:
If you need to replace a question, take the corresponding question from the Replacement Packet rather than one of these questions. In case of a tie, use these questions in order until one is answered correctly.

Some jazz musicians famous for playing this instrument were Blue Mitchell, Lee Morgan, and Clifford Brown. The instrument is also used in classical music, and musicians such as Allen Vizzutti have been successful in both forms. It is almost identical to a cornet, but it has a more cylindrical bore, making it less mellow. Name this instrument played by Al Hirt, Miles Davis, Wynton Marsalis, and Louis Armstrong.

ANSWER: Trumpet (prompt Horn, accept more specific answers)

The color of this element is explained by relativistic effects regarding the excitation of its 5d electrons, which absorb blue light. The lightest element with ten electrons in its 5d orbital, it is the most malleable and ductile metal. Its presence can be tested for using nitric acid, and it is the third element in the copper family. Name this precious metal with atomic number 79 and atomic symbol Au.

ANSWER: Gold

This country borders Austria, Belgium, the Czech Republic, Denmark, France, Luxembourg, the Netherlands, Poland, and Switzerland. Name this country whose capital is Berlin.

ANSWER: Germany