1. Interdisciplinary
It is the name of the strait near the Juan De Fuca Strait that separates Vancouver Island from the rest of Canada. It also is the first name of the painter of Cow’s Skull with Calico Roses. It is also the alternative title of a famous Ray Charles song and the name of a US state that was the setting of Gone With The Wind and which was originally settled by James Oglethorpe. Give this name which also is the name of a country that was invaded by Russia this summer.

ANSWER: Georgia

2. Pyramidal Math (10 Seconds)
Give a two-word answer. It can be calculated by multiplying the differences between corresponding members of two sets and their means and then dividing the sum of those numbers by the square root of the sums of the products of the same differences squared. Another way to calculate it involves dividing by the product of the standard deviations. It often gets squared so that statisticians can focus on its magnitude rather than its direction. It always has a value between negative one and positive one, and a value of zero means that no linear relationship exists between two sets of data. Give the name of this value, which often is represented by a lower case r.

ANSWER: Correlation Coefficient

3. World Literature
The main character in this novel is researching a politician who lived during the French Revolution but becomes disillusioned with that project. At one point, he meets a man at the local library who is trying to read everything there in alphabetical order. The book explores the real author’s philosophical leanings and describes the ideas that cause him to feel a certain sickness. Name this 1938 work by Jean-Paul Sartre.

ANSWER: Nausea (or La Nausee)

4. Current Events
When this man went on a speaking tour earlier this year, David Gergen called it, “The dumbest, most selfish, most narcissistic thing I've seen in 40 years of covering politics.” In a recent appearance, this man said, “The media wanted to use me as a weapon of mass destruction to destroy that man.” Though he is not a politician, he was featured in political ads with the slogan, “Too radical, too risky.” His most famous speech was titled “Confusing God and Government.” Name this recently retired pastor from the South Side of Chicago.

ANSWER: (Reverend Jeremiah) Wright(, Jr.)
5. Biology
This condition can be diagnosed using a low-dose X-ray technique or an ultrasound of the heel, and its symptoms are sometimes treated with kyphoplasty. It is sometimes caused by the use of glucocorticoids or by certain hormone disorders. To prevent it, doctors recommend weight-bearing exercises and diets that include Vitamin D and calcium, especially for women. Name this disease caused by a decrease in the amount of certain minerals in a person’s bones.

ANSWER: Osteoporosis

6. Music
Its title is taken from a line in Othello, and a second version of it was used at the coronation of Edward The Seventh. In England, it is a patriotic song accompanied by the lyrics known as Land of Hope and Glory. The foreground voice begins with a half note and is followed by two eighth notes, a quarter note, and three more half notes. Name this song whose common use began when an honorary degree was given by Yale University to Edward Elgar at its graduation.

ANSWER: Pomp And Circumstance (March(es))

7. United States History
One of the first students at Stanford University, this eventual President studied mining engineering. He got jobs that took him all over the world, including China during the Boxer Rebellion. He was in London when World War One broke out and helped many Americans return home before providing significant assistance to Belgium. For most of the 1920s, he was the Secretary of Commerce. In 1928, he defeated Alfred E. Smith in a landslide election. Name this President during the beginning of the Great Depression.

ANSWER: (Herbert) Hoover

8. Physics (30 Seconds)
Include units. Find the equivalent resistance if you place three resistors that are each four ohms in an arrangement so that two are in parallel and the other one is in series with the pair of parallel resistors.

ANSWER: 6 Ohms

9. Vocabulary
On ships, this word can refer to a triangular sail with a vertex pointing downward. It usually has a different meaning, which entered the English language in its current form in the late 19th Century when the London Zoo sold one of its elephants to P.T. Barnum. The term now is used to describe wide jets. Name this five-letter synonym for large.

ANSWER: Jumbo
10. Religion/Mythology
Do not answer in English. It ends with the Shahada and the seeking of blessings and peace for good people, and it begins with a two-word phrase that translates as God Is Greater. It generally is led by a learned person and once a week is preceded by a sermon, and it is supposed to be performed at dawn, noon, mid-afternoon, sunset, and nightfall. Name this pillar of Islam.

ANSWER: (Fard) Salah (accept Salat or Namaz and the addition of prefixes As- or Al)

11. Pop Culture
This university has produced many great athletes, including Lisa Leslie and Cynthia Cooper. Their best Men’s Basketball player was originally selected third in this year’s NBA draft and traded immediately to the Memphis Grizzlies. Some of its Heisman Trophy winners have been Mike Garrett, OJ Simpson, Charles White, and Marcus Allen. In recent years, Heisman Trophies have been won by Reggie Bush, Matt Leinart, and Carson Palmer. Name this school that has a major football rivalry with Notre Dame and an across-the-board rivalry with UCLA.

ANSWER: (U)SC (or (University of) Southern California)

12. Geometry/Trigonometry (30 Seconds)
Ignore units. Find the area of a circle that has a diameter with endpoints at (2,4) and (8,0).

ANSWER: Thirteen Pi (do not accept Thirteen)

13. Nonfiction
The table of contents breaks it down into nine books, and one of the people portrayed is football coach George Allen. The first book is about a farmer, farmhand, farm woman, deep miner, strip miner, and heavy equipment operator. First published in 1974, its subtitle was People Talk About What They Do All Day and How They Feel About What They Do. Name this oral history by Studs Terkel that was made into a musical.

ANSWER: Working

14. British Literature
The main character of this novel is married to Mary Burton. One of the people he meets is Don Pedro de Mendez, whose kindness is unappreciated, and he also meets Flimnap, Skyresh Bolgolam, and Lord Munodi. Munodi’s land, Lagado, is the capital of the floating island of Laputa. This book’s protagonist meets these characters after six years of uneventful travel followed by strange visits to Brobdingnag and Lilliput. Name this novel by Jonathan Swift.

ANSWER: Gulliver’s Travels (accept partial answers from Travels into Several Remote Nations of the World, in Four Parts. By Lemuel Gulliver, First a Surgeon, and then a Captain of several Ships)
15. Geography/Earth Science/Astronomy
This state contained much of the Creek War, including sites such as Fort Jackson, Fort Mitchell, and Horseshoe Bend. Its capital contains the Dexter Avenue Baptist Church, and its largest city contains the 16th Street Baptist Church, both of which were important in the Civil Rights Movement. The Northern part of the state includes the birthplace of Helen Keller and the NASA Marshall Space Flight Center. Name this state that contains the cities of Muscle Shoals, Huntsville, Birmingham, and Montgomery.

ANSWER: Alabama

16. Algebra (30 Seconds)
Find the x- and y-coordinates for the one point of intersection between the circle given by equation quantity x minus three squared plus quantity y minus four squared equals twenty-five and the circle given by equation quantity x minus three squared plus quantity y plus four squared equals one hundred sixty-nine.

ANSWER: (3,9)

17. Art/Architectecture
The ones originally on display at the Washington Gallery of Modern Art were nicknamed Orange, Cherry, Grape, and Mint. Gold soon joined them, and Orange recently sold for sixteen million dollars. They were all created in late 1962, after the person shown had committed suicide, and based on a 1953 publicity photo. Diptych shows the same image fifty times. Name these silkscreen paintings created by Andy Warhol showing a very famous actress.

ANSWER: Marilyn (Monroe) (accept longer answers, prompt answers including Monroe)

18. Chemistry
This element is often used in fungicides, and it is combined with charcoal and saltpeter to make gunpowder. It is in many minerals, such as galena, pyrite, and cinnabar. Though it is odorless in its pure form, it is associated with bad odors and used to be known as brimstone. Name this element, often found in acid rain, with atomic weight 32 and atomic number 16 that is represented by a capital S.

ANSWER: Sulfur

19. United States Literature
The only novel she wrote was Maud Martha. One of her poetry collections ends with a group of twelve sonnets titled “Gay Chaps at the Bar”—the full collection is titled A Street in Bronzeville. Another collection, The Bean Eaters, contains the poem We Real Cool. Name this African American who wrote Annie Allen.

ANSWER: (Gwendolyn) Brooks
20. World History
He caused Gaius Silanus and Gemellus to commit suicide and ordered Macro to be executed, and he declared that his deceased sister Drusilla should be treated as a god. One of his first acts upon being named Emperor was to end treason trials, but he reinstituted them a few years later. At one point in his reign, he had hundreds of ships tied together so that he could ride across the Bay of Naples on horseback. He was murdered four years after assuming power upon the death of Tiberius. Name this Roman Emperor who, according to rumor, appointed Incitatus, his favorite horse, as consul.

ANSWER: Caligula

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.

(30 Seconds)
This number is equal to the number of ways you can pick two distinct letters if order doesn’t matter. It also equals one zero one base eighteen. Find this number equal to the difference nineteen squared minus six squared.

ANSWER: 325

This term can refer to the output of a financial investment or a chemical reaction. As a verb, it is sometimes used by members of Congress when they defer to other members or by farmers to describe what a productive field does. Give this term sometimes found on triangular road signs.

ANSWER: Yield

This country borders Bangladesh, Bhutan, China, Myanmar, Nepal, and Pakistan. Name this country whose capital is New Delhi.

ANSWER: India