

Round 9

Brad Fischer • James Fischer • Alec Krueger • Kristin Strey • Tyler Vaughan

Tossups

(1) **This ruler was controversially painted in an informal muslin dress in an official portrait by Élisabeth Vigée Le Brun. This ruler's signature was forged to authorize the purchase of a lavish diamond (*) necklace, leading to a scandal in which the Cardinal de Rohan was arrested in the Hall of Mirrors. This queen got as far as Varennes [vah-RENN] in a June 1791 attempt to escape Paris. For ten points, name this queen who was guillotined in 1793 shortly after her husband, Louis XVI [the sixteenth], was killed by the French Revolution.**

ANSWER: Marie Antoinette (accept Maria Antonia Josepha Johanna)

(2) **The Flora family is a high-density group in this region. Lower-density areas created by resonance in this region were discovered by Daniel Kirkwood. Beyond this region, two similar regions are home to the Greeks and Trojans. Pallas, Vesta, and (*) Ceres are the largest objects in this region, which is between two and three astronomical units from the Sun. For ten points, name this region of the Solar System that is home to millions of small rocky bodies between the orbits of Mars and Jupiter.**

ANSWER: main asteroid belt

(3) **This work's protagonist is mistaken for Nathoo and sent to live with Messua after a fight at Council Rock, where he confronts Akela and Shere Khan. Stories in this collection describe "Toomai of the Elephants" and (*) "Rikki-Tikki-Tavi," a mongoose who protects a British family from venomous snakes. The "man-cub" Mowgli is raised by wolves and taught by Baloo, a wise old bear in, for ten points, what episodic Rudyard Kipling novel containing stories of humans and animals in rural India?**

ANSWER: The Jungle Book

(4) **This celebrity holds the YouTube record for the most likes on a non-music-video with a video about the Instagram egg. A partnership with Buca di Beppo allows this celebrity to run a (*) delivery-only restaurant chain. In 2019, this celebrity started Team Trees to plant a tree for each of his then-twenty million subscribers. For ten points, name this YouTuber known for his well-funded giveaway stunts, who distributed money, iPads, and free food at the opening of his namesake burger restaurant in December 2020.**

ANSWER: MrBeast ["mister beast"] (accept MrBeast6000; accept Jimmy Donaldson; accept MrBeast Burger)

(5) **This figure cited "line 157 337" in a transmission broadcast on 3105 kilohertz. The USGS *Itasca* was unable to establish communications with this adventurer during an attempt to reach (*) Howland Island. Fred Noonan accompanied this aviator in a Lockheed Electra during a planned circumnavigation of the world. For ten points, name this pioneering aviator, the first woman to fly solo across the Atlantic, who disappeared in 1937.**

ANSWER: Amelia Earhart (accept Amelia Mary Earhart)

(6) This system requires the use of shechita, as described by the *Chullin*, and forbids pausing, hacking, or tearing the esophagus during slaughter. Pareve [pah-rah-vah] describes “neutral” items in this system that can be (*) consumed with either dairy or meat. Animals that both have cloven hooves and chew their cud may be eaten according to this system, which forbids the consumption of pigs. For ten points, name this set of Jewish dietary laws.

ANSWER: laws of kashrut (accept kosher laws)

(7) A literary work from this country describes a man beating oxen and a child’s face drawn on a melon in lists of “Hateful Things” and “Adorable Things,” and is called *The Pillow Book*. In a work from this country, one of the world’s first novels, the (*) Akashi Lady [ah-kah-shee lady] and Lady Aoi [ah-oh-ee] are two of the women seduced by the disowned son of this country’s emperor. *The Tale of Genji* is set in, for ten points, what Asian nation, where Sei Shonagon [say shoh-nah-gohn] and Murasaki Shikibu [moo-rah-sah-kee shee-kee-boo] wrote in what is now Kyoto?

ANSWER: Japan (accept Nihon-koku; accept Nippon-koku)

(8) A work in this musical genre prominently features a zither solo at the tempo of a ländler, a genre that preceded this style of work. One of these works, originally titled “Hand in Hand,” was later dedicated to Franz Joseph I and Wilhelm II, and is called (*) “Emperor.” “Tales from the Vienna Woods” is another of these works composed by Johann Strauss Jr, who is nicknamed the “king” of these dances. For ten points, name these Viennese ballroom dances in three-four time, exemplified by the “Blue Danube.”

ANSWER: waltzes (accept valses; accept Viennese waltzes; accept Emperor Waltz; accept The Blue Danube Waltz; prompt on “dance” or “ballroom dance” before “dance” is read)

(9) French territories in this ocean include an island with capital Saint-Denis [sahn deh-NEE], Réunion. Near the Laccadive Sea, Adam’s Bridge connects an island in this ocean to the mainland. The Nicobar and Andaman Islands are in this ocean, which was rocked by a 2004 (*) tsunami that killed hundreds of thousands of people after an earthquake struck off the coast of Sumatra. The Bay of Bengal and Arabian Sea are northern arms of, for ten points, what ocean between Australia and Africa?

ANSWER: Indian Ocean

(10) Onset of this disease may be slowed if a patient’s CCR5 co-receptor is non-functional, either genetically or due to medicines like Maraviroc. The first treatment for the underlying cause of this disease, (*) AZT, was approved in the US in 1987. Kaposi’s sarcoma is a common opportunistic cancer in patients with this disease, which is caused by a retrovirus that can be spread by blood transfusion and unprotected sex. For ten points, name this disease in which a patient’s immune system is weakened after infection with HIV.

ANSWER: HIV/AIDS (accept human immunodeficiency virus/acquired immunodeficiency syndrome; prompt on “HIV” alone before it is read)

(11) During the 2006 midterm election cycle, this politician proposed a “Hundred Hour” plan if her party took a majority of the House. In September 2020, this politician claimed to have been “set up” by a (*) salon that operated against pandemic restrictions. Most of the city of San Francisco is represented in the US House by, for ten points, what seventeen-term Congresswoman from California, a Democrat who has twice served as Speaker of the House?

ANSWER: Nancy (accept Nancy Patricia Pelosi; accept Nancy D’Alessandro)

(12) A character in this novel is nicknamed “le cric” [luh kreek], or “the jack,” due to the immense strength he uses to lift a collapsed cart off of Fauchelevent [foh-shay-lay-VON]. This novel’s protagonist is saved from an attack in the Rue Plumet [roo ploo-MAY] by Éponine, the daughter of the cruel Thénardiens [tay-nahr-dee-AYS]. In this novel, (*) Cosette’s boyfriend, Marius, participates in the June Rebellion in Paris while the obsessed policeman Javert pursues the escaped convict Jean Valjean [jahn val-jahn]. For ten points, name this novel by Victor Hugo about unhappy people at the bottom of French society.

ANSWER: Les Misérables (do not accept or prompt on “Les Mis”)

(13) The Vlasov equation resolves the difficulties of describing this state of matter with the Boltzmann equation. The Debye [deh-BYE] length characterizes the strength of the electrostatic charge of particles in this state of matter. A tokamak’s (*) magnetic field can confine matter in this state, which may be partially or fully ionized, as seen in neon lighting and stars, respectively. For ten points, name this “fourth” state of matter, which has much higher energy than solid, liquid, or gas.

ANSWER: plasmas

(14) A memorial and museum about the history of these people on Gorée Island includes the “Door of No Return.” The *asiento* was a Spanish contract dictating the treatment of these people, who were generally classified as (*) chattel by the seventeenth century. The Middle Passage of the triangular trade system in the Atlantic Ocean was the forcible transport of, for ten points, what people who were forced into labor by white Europeans?

ANSWER: African slaves (prompt on “African people”)

(15) This substance was represented by the “tonsured” and “foliated” aspects of a deity who may have been Hun-Hunahpu, the father of the Hero Twins. Cente-otl was the Aztec god of this substance. According to the *Popol Vuh*, after a group of gods were unsuccessful with animals, clay, and wood, they created (*) humanity out of this substance. A recurring Mayan myth describes the opening of a mountain that contained the seeds of this staple crop. For ten points, name this grain, whose yellow kernels were essential to Mesoamerican life.

ANSWER: maize (accept corn)

(16) This function of $2x$ can be written as two times this function of x times its cofunction of x . This function, the reciprocal function of cosecant, is positive for angles in the (*) first and second quadrants. The y value of a point on a unit circle is described by this function, which is remembered by the first step of the mnemonic “SOHCAHTOA” [soh-kah-toh-ah]. For ten points, name this trigonometric function, the complementary function of cosine.

ANSWER: sine function

(17) In a 1988 book, Stephen Hawking contrasted “imaginary” and “real” forms of this quantity. This quantity’s base SI [S-I] unit is defined by measuring the frequency of an atom of (*) cesium-133. Arthur Eddington described this quantity as an arrow pointed in one direction, and Einstein’s theory of special relativity relies on a four-dimensional model that fuses three-dimensional space with this quantity. Velocity is computed by dividing distance traveled by, for ten points, what quantity measured in seconds?

ANSWER: time (accept imaginary time; accept real time; accept arrow of time or time’s arrow)

(18) In a painting named for this figure, Chloris clings to Zephyrus as he flies in from the left. The right side of a painting of this figure is dominated by an orange grove with gold-leaved leaves behind a nymph who holds up a (*) robe for this figure. This goddess is blown to shore, covering her nakedness with her long, golden hair, in a painting by Sandro Botticelli. For ten points, name this goddess who stands on a seashell in a painting of her “Birth,” the Roman goddess of love.

ANSWER: Venus (accept Venere; accept The Birth of Venus or Nascita di Venere; accept Aphrodite before “Roman” is read)

(19) This novel’s protagonist is questioned in prison by John Wilson, and recoils when her husband is sent to her cell to care for her sick daughter. In this novel, Roger Chillingworth tends to a rash on the chest of Reverend (*) Arthur Dimmesdale, who dies on a scaffold when he admits to fathering Pearl with this novel’s protagonist. For ten points, name this Nathaniel Hawthorne in which Hester Prynne is shamed for adultery by being forced to wear a red “A” on her clothes.

ANSWER: The Scarlet Letter

(20) This conflict started when a group of Virginia militia ambushed and killed Joseph Coulon de Jumonville. During this conflict, a young George Washington was forced to construct Fort (*) Necessity, and Edward Braddock died while attempting to seize Fort Duquesne [du-KAYN]. For ten points, name this American theater of the Seven Years’ War in which the United Kingdom clashed with a European rival and its Native American allies.

ANSWER: French and Indian War (prompt on “Seven Years’ War” before it is read)