

# PARFAIT II Round 3

Princeton  
Jordan Boyd-Graber

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# 1 Princeton Tossups, Round 3

1. Godaganga Deva made his cult the state religion of Orissa, and his eyes are circular, leading some to call him Chakadola and Chakanayana. In his temple, Balabhadra and his sister Subhadra are depicted with stumps instead of arms. During the month of Asadha, the festival of Rathayatra at Puri has his likeness being placed on a heavy wagon that requires the strength of hundreds of believers to pull. For ten points, identify this form of Krishna that has become synonymous with an unstoppable force.

**Answer:** Jaganatha or Juggernaut (prompt on Krishna or Vishnu)

2. It urges you to consider a man who forgot the sound of gulls after being dead for two weeks and who was once as “handsome and tall as you.” It recasts Day’s *Parliament of Bees*, but instead of bringing Actaeon to Diana, it brings Sweeney to Mrs. Porter in the spring in the third section, *The Fire Sermon*. The previous section begins with an allusion to Antony and Cleopatra with a beautiful woman in a opulent, candlelit room, then praises the Shakespearan rag as elegant and intelligent before telling lil, without mincing words, “hurry up please, it’s time” in *A Game of Chess*. For ten points, name this long poem by T.S. Elliot that begins “April is the crulest month.”

**Answer:** The Wasteland (prompt on “Death by Water,” but nothing else)

3. Harald Wolf of the university of Ulm in 2006 showed that desert members of this family, *Cataglyphis fortis*, have internal pedometers after gluing pig bristles to their feet. This is important because they, unlike the *Solenopsis saevissima* studied by Wilson, cannot use venom to mark paths in a manner first investigated by Carthy, who showed *Lasius fuliginosus* used fecal matter. *Bothriomyrex decapitans* got its name by the tendency of its queen to allow itself to be captured by another hive, decapitating the queen of a *Tapinoma* hive, and taking control of the nest. The genus *Eciton* has no fixed hive, but is constantly on the march, thus earning the appellation “army.” For ten points, name these social insects, members of order Hymenoptera, that often disrupt picnics.

**Answer:** Formicidae or formics or ants

4. Dmitriij Lixacev argues that the high number of imperfective verbs in the first part of the novel emphasizes the desire to make the past the present, and Milton Ehre thinks the novel is circular because the fourth section returns back to the initial prose poem about the land of Cackaigne. The passive dreaming, where the title character is lying on the couch, is interrupted by a stream of visitors brought in by the servant Zakhar, each of whom the protagonist urges to get in from the cold, even in May. That passivity is broken in the second and third parts when the title character woos Olga, battling the half-German Stolz, but part four chronicles his unabated descent. For ten points, name this superfluous man described by Goncharov.

**Answer:** Oblomov

5. He was assisted by Julio de la Fuente and Valetta Swann while in Oaxaca valley, and Swann, whom he married, was responsible for the posthumous publication of *The Scientific Theory of Culture*. Interested in social change, he became involved in the International African Institute, where he met Jomo Kenyatta, for whom he wrote a foreword to

*Facing Mount Kenya.* He accidentally began his pioneering fieldwork when the British government forced him, a citizen of Austria-Hungary, to stay on the Trobriand islands during World War I, which formed the basis of his *Argonauts of the Western Pacific*. For ten points, name this Polish-British anthropologist and father of functionalism.

**Answer:** Bronislaw (Kasper) Malinowski

6. In 1969, it initiated its first Free Breakfast Program at St. Augustine's Church in accordance with the last of its 10-Point program, "land, bread, justice, peace, and control of modern technology." In Chicago, Fred Hampton used its organization to provide "liberation school" and free sickle-cell anemia testing until assassinated by the FBI. One of its founders was imprisoned for allegedly shooting an Oakland police officer, prompting its minister of information, Eldridge Cleaver, to lead a "Free Huey" campaign. For ten points, name this militant group designed to advance the cause of African Americans founded by Huey Newton and Bobby Seale.

**Answer:** Black Panther Party for Self-Defense

7. The western half of this movement, led by a man who took the title "Lord of the Teachers," had libation offerers erect public houses stocked with rice and meat; travelers could freely enter, but if they took more than their share, they would be cursed. The western half's leader's brother, Chang Wei resisted an invasion, but Chang Lu did not oppose Ts'ao Ts'ao, who had earlier crushed the eastern movement led by Chang Chueh, killed in 184. For ten points, name this Han rebellion that takes its name from the headdresses that symbolized their connection to the earth.

**Answer:** yellow scarves or turbans or Huang Jin Zhi Luan

8. His intestines violently contracted when star-rays were directed against him, but his soul was so strong that they were deflected and struck their sender, Olympius. The fourth chapter of the second book of his most famous work attacks the idea that the world is evil, a belief he attributed to the Gnostics, and his best friend, Amelius, was a pagan. His best known work, portions of which were intended for Amelius Gentilianus of Tuscany and Eustochius, his physician, was collected by Porphyry and is known as the *Enneads*. For ten points, name this Roman philosopher of 3rd century Rome considered the founder of neoplatanism.

**Answer:** Plotinus

9. In one of his poems, "What makes you look so white, so white?" is asked of the Colour-Sergeant by Files-on-Parade in *Danny Deever*. Two underage musicians, Lew and Jakin, play the Old Line after a Ghazi charge embarrasses their regiment in *The Drums of the Fore and Aft*, while Daniel Dravot and Peachy Carnehan ruin their run as kings after the former takes a wife and reveals himself as mortal in *The Man Who Would be King*. For ten points, name this British author best known for *Kim* and *The Jungle Book*.

**Answer:** Rudyard Kipling

10. Sertürner first isolated this organic alkaloid. Gulland and Robinson first found its structure. Gates and Ginsburg are among the synthesis reactions; the most efficient today is the Rice synthesis. Its natural synthesis begins with tyrosine and it is taken from the latex, or sap, of *Papaver somniferum*. Chemicals with similar effects include: sufentanil,

methadone, and Demerol. Bayer of aspirin fame sold a derivative of it with disastrous consequences. For ten points, name this chemical that, when boiled with acetic acid, produces heroin.

**Answer:** Morphine or 7,8-didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol

11. Its central plateau contains the large Fish River Canyon and the former lake fed by the Kunene river that is now Etosha salt pan. Its highest peak, Mount Brand, is on the western edge of Kaokoveld, which abuts the coastal desert that gives the country its name. In the west lies the Kalahari desert and a region whose largest city is Katima Mulilo that was granted to German South-West Africa to facilitate access to the Zambezi through the machinations of Leo von Caprivi. For ten points, name this African nation between Angola and South Africa.

**Answer:** Republic of Namibia

12. The speaker demurs that he is what he is because of circumstances beyond his control; he's not a hero and he's not a savior. He also says we all need control; especially his nemesis, Dr. Righteous. He expresses his thanks to the title figure, whose appearance allows him to escape prison, for doing the things that nobody wants to. Concluding with the declaration that he is indeed Kilroy, the has-been rocker and modren [mahd-REN] man, and not the title figure. This song by Styx from the album Kilroy Was Here is about a man whose heart is human, whose blood is boiling, and whose brain is IBM and for ten points has what title that sorta rhymes with domo arigato?

**Answer:** Mr. Roboto

13. An introductory passage in 18th century editions explains why it begins with something that is a pun on "real events concealed" and why it's a good idea to preserve women's modesty with a pun on "fictitious words remain." The Rong household is described as a ball of twine with no beginning, and the author laments that he doesn't know where to begin. The author taxes his credibility by having a newborn carrying a gigantic piece of Jade in its mouth; the connections with Jade are further strengthened by the presense of "jade" in the names of both Daiyu and her lover, Baoyu. FTP, identify this novel detailing the decline of the Jia family and written by Cao Zhan about Manchu dynasty intrigues.

**Answer:** Dream of the Red Chamber or The Story of the Stone or Hongloumeng

14. After Habbus, the putative author of *Mevo ha-Talmud* with this name ruled Granada until 1055. In the bible, this victor of the battle of Ebenezer served the temple of Shiloh in his youth after his mother, Hannah, offered her first by Elkanah to Eli. The two books attached to his name relate how he initially rejected the idea of a king and then anointed Saul before rejecting him in favor of David. For ten points, name this prophet of Israel and last of the judges.

**Answer:** Samuel (accept Samuel ha-Nagid before "Lehi") prompt on "Sam" or "Ismail," but accept anything like Shmu'el

15. A woman complains of Euclid's complex before hearing the story of how Hubert received orders from a closet to pour a blue vial into his so-called father's nighttime milk to kill

him before the boy left for military school. Rafael shoots a terrorist's mechanical dog after learning he mixed up the evening of a dinner party; the death of a restaurant owner, arrests on cocaine charges, a military drill, a duel, and discovering dinner is a stage production disrupt the eating plans of the titular group. For ten points this 1972 Buñuel film about the endearing enemies of the proletariat.

**Answer:** La Charme discret de la bourgeoisie or The Discreet Charm of the Bourgeoisie

16. Because it was thought that he had not completed *Elizabeth*, Uranio Fontana adapted the music from *Otto mesi in due ore* to fill in the gaps in an 1853 Paris production. Taught by Johann Simon Mayr and Padre Stanislao Mattei, his first opera *Il Pigmaliione* was followed up by the more successful *Enrico di Borgogna*, although there were plenty of flops like *Maria Padilla* where the heroine busts up a wedding and then dies of joy. For ten points, name this prolific composer of *La fille du régiment*, *La favorite*, *The Elixir of Love*, and *Lucia di Lammermoor*.

**Answer:** (Domenico) Gaetano (Maria) Donizetti

17. The name's pronounced the same. Alternately known as Paltzig, this battle saw Saltykov defeat von Wedel's Prussian forces in Poland in a 1759 battle during the Seven Years' War. Dan Ingalls implemented a system based on Simula's message passing designed by a PARC researcher by this name that became the first Object Oriented language, Smalltalk. John is the frontman of Steppenwolf, and the comedian Danny starred in White Christmas with Bing Crosby. The son of Ector, he is Arthur's adoptive brother in Authurian legend. For ten points, name this common name that is also the middle name of Mary Ash, who founded a door-to-door cosmetics company.

**Answer:** Cai or Kije or Kay or Kaye

18. Newcastle sent him to replace Trevor at the negotiations at Breda, and his role as a prosecutor in the trial against John Wilkes earned him the nickname "Jemmy Twitcher." The author of *Voyage Round the Mediterranean*, as first lord of the admiralty he elected to send Keppel to Gibraltar in order to intercept D'Estaing; and despite his innovative use of copper-hulled ships, his lack of support for Rodney in America is blamed for Britain's poor naval record during the revolutionary war. It was also in this role that he organized Cook's expedition to Hawaii, to which his name was originally applied. Grosley's *Tour to London*, however, first attached this gambling addict's name to – for ten points – what combination of salted beef between two slices of bread?

**Answer:** Sandwich, John Montagu, 4th Earl of, Viscount Hinchinbrooke, Baron Montagu Of Saint Neots

19. Len Hammy argued that its error lacks local minima, contradicting the critical point analysis of Lisboa and Perantonis, and that a three layer neural network will escape Rumelhart's configuration. Because it is not a linearly separable function, it requires at least one hidden layer. One can perform a bitwise negation in MIPS by using this function on an input and negative one, and this bitwise operation is often used to set a register to zero by storing the result of this operation on two identical inputs. Symbolized by a caret in Java and C++, for ten points, name this bitwise operator that returns true if

either of its inputs is true but false if both are true.

**Answer:** XOR or EOR or exclusive OR

20. Naufal wrote a history of his rule, and his son sacked the town of Gondar during his rule, capturing a number of Christians, angering the French and British governments. Palmerston's British government sent John Bowring to his domains to investigate the charges of slavery and to investigate the feasibility of connecting the Mediterranean to the Red Sea. The British, in concert with the French and Russians, forced him to relinquish the gains he had made after the battle of Nizip, which would have broken up the Ottoman empire. Those forces had earlier defeated a joint Egyptian-Turkish fleet at Navarino, which encouraged his modernizing reforms like the dissolution of the Mamluks. For ten points, name this pasha of Egypt from 1805-1849 who shares his name with a boxer originally born Cassius Clay.

**Answer:** Mohammed (Mehmet) 'Ali Pasha

21. He devised the Neo-Bechstein piano in 1922, which used tiny strings to create notes that were then amplified electronically. He developed a lamp which used a mixture of rare-earth oxides instead of carbon filaments, but this was superseded by the Tungsten lamp. He created a theory that showed that specific heats approached zero as the temperature did, which subsequently became enshrined as the third law of thermodynamics. For ten points, name this German chemist whose name is attached to formula that describes the voltage of an electrolytic cell.

**Answer:** Walther Hermann Nernst

## 2 Princeton Bonuses, Round 3

1. This painting is similar to the artist's *At the Piano* in that a character sits with a painting above her head. The pose and somber expression evoke the artist's *Lange Lijzen* of the *Six Marks* but is shorn of its oriental trappings. for ten points each. . .
  - 10 Name this painting first exhibited in 1872.  
**Answer:** Arrangement in Grey and Black, No. 1: The Artist's Mother  
 (DO NOT MENTION IF THEY DON'T, but take Whistler's Mother)
  - 10 Name the artist of *Arrangement in Grey and Black No. 1*, *Lange Lijzen*, and *At the Piano*.  
**Answer:** James Abbott McNeil Whistler
  - 10 The subject of *Arrangement in Grey and Black No. 2* is this author of *Sartor Resartus*.  
**Answer:** Thomas Carlyle
  
2. This work argues that because a rose is fertilized by cow's dung, then it is not absurd to say that the rose has teeth in the mouth of a beast. for ten points each. . .
  - 10 Name this work of twentieth century philosophy compiled by Elizabeth Anscombe after its author's death in 1951 that is organized into numbered *Bemerkungen* and that argues that language is defined by its use.  
**Answer:** Philosophical Investigations or Philosophische Untersuchungen
  
  - 10 This Austrian wrote *Philosophical Investigations*.  
**Answer:** Ludwig Wittgenstein
  
  - 10 Wittgenstein was influenced by a unified account of the life and teachings of Christ in this Russian's *The Gospel in Brief*.  
**Answer:** Leo Tolstoy
  
3. Central America has drugs and bananas, but it also has water. Answer some questions about Central American bodies of water for ten points each.
  - 10 This large, freshwater lake contains sharks, swordfish, and tarpon and is the site of the island of Ometepe; it is separated from the Pacific by the Rivas Isthmus.  
**Answer:** Lake Nicaragua or Cocibolca or Mar Dulce
  
  - 10 Lake Nicaragua is connected by the Tipitapa river to this other large lake that shares its name with the capital of Nicaragua.  
**Answer:** Lake Managua
  
  - 10 Nicaragua shares this Pacific gulf with Honduras and El Salvador; its cities include La Unión in El Salvador, Amapala on Isla del Tigre in Honduras, and Puerto Morazán in Nicaragua on the Estero Real in Nicaragua.  
**Answer:** Gulfo Fonseca

4. He, along with Julian Mack, favored investment over philanthropy for the Zionist Organization of America until a schism at the 1921 convention in Cleveland. For ten points each ...

10 Name this author and jurist who wrote *The Curse of Bigness* and *Other People's Money*.

**ANSWER: Louis (Dembitz) Brandeis**

10 Louis Brandeis was originally intended to be this president's attorney general but he instead appointed Brandeis to the court.

**Answer: Woodrow Wilson**

10 The so-called Brandeis Brief was first used by Brandeis in *Muller v. Oregon*, but was more famously used in this 1954 decision that appealed to Kenneth B. Clark's research suggesting that the status quo "generates a feeling of inferiority as to their status in the community."

**Answer: Brown v. Board of Education**

5. Given a string quartet, give the composer, 5-10-20-30.

5 *From My Life* (or *Zméhoživota*) in E minor.

**Answer: Bedrich Smetana**

5 Death and the Maiden, which takes second movement theme from *Der Tod und Das Mädchen*.

**Answer: Franz Schubert**

5 The three Razumovsky quartets commissioned in 1805 by Count Andreas Razumovsky.

**Answer: Ludwig van Beethoven**

5 The American string quartet, written while vacationing in Spillville, Iowa.

**Answer: Antonín Leopold Dvorák**

6. For water it is 2.2 times ten to the nine Newtons per meter squared, and for steel it's sixteen times ten to the tenth. For ten points each ...

10 Name this measure of proportionality between fluid pressure and absolute change in the volume of an object undergoing deformation.

**Answer: bulk modulus**

10 The speed of sound in a substance depends on the bulk modulus of air as well as this other property.

**Answer: density**

10 If one were to quadruple the bulk modulus of air and double the density of air, by what factor would the speed of sound change?

**Answer: square root of two times the original (increase by 41.4%, accept equivalents)**



7. Identify the authors from the following similarly titled works for ten points each.

10 The titular sideshow artist takes up his profession because there is no food he likes to eat in this author's *A Hunger Artist*.

**Answer:** Franz Kafka

10 With an art somewhere between mime and ventriloquy, the title character of *The Body Artist* must uncover the secret of her husband's death from a man child who appears in her home.

**Answer:** Don DeLillo

10 He writes about Stephen Dedalus's desire to devote himself only to writing in *A Portrait of the Artist as a Young Man*.

**Answer:** James Joyce

8. Because they have no genome, all of their proteins must be imported. For ten points each ...

10 [NOTE TO MODERATOR: read chemical as symbols, do not give name.]

Name this organelle that contains high concentrations of catalase and urate oxidase, is reduced in number in Zellweger's syndrome and contains enzymes producing  $H_2O_2$ .

**Answer:** Peroxisomes

10 In Beta oxidation, the alkyl chains of fatty acids are shortened sequentially by blocks of two carbon atoms at a time that are converted into this molecule for reuse in biosynthetic reactions.

**Answer:** acetyl coenzyme A

10 Oxidative reactions first performed in peroxisomes might have been replaced by oxidative reactions in this organelle where they had the advantage of also producing energy.

**Answer:** mitochondria

9. Sometimes it's better to wait and live than be impatient and die. Answer the following about the prudence of this policy for ten points each.

10 After this general's victory at Lake Trasimene in 217 over Gaius Flaminius, the Roman people installed a new dictator.

**Answer:** Hannibal Barca

10 That new dictator was this man, whose delaying tactics led his name to be used as a general adjective for "cautious."

**Answer:** Quintus Fabius Maximus, Verrucosus prompt on "Cunctator"

10 Until his death, Fabius vehemently opposed this man's plan to invade Africa, which culminated in a victory at Zama.

**Answer:** Publius Cornelius Scipio Africanus Major

10. They allow for no conversions to or from their faith, only the *'uqqal* know the secrets of the doctrine of *hikmah*, and their catechism is the *at-Ta'lim*. For ten points each ...

- 10 Name this tiny, secretive religion.  
**Answer:** Druze or Darazi
- 10 The Druze believe that this Fatamid caliph did not die, but simply vanished to one day return.  
**Answer:** al-Hakim bi-Amr(ih) Allah
- 10 Most Druze live in this middle eastern country on the Meditteranean, which also is home to a large Maronite Christian community.  
**Answer:** Republic of Lebanon or al-Jumhuriyah al-Lubnaniyah
11. Talcott Parsons helped introduce many of the prevalent ideas of European sociology and unite disparate fields of study. For ten points each, name these individuals who influenced Parsons.
- 10 Parsons took the idea of “Social Action,” the focus of his work *The Structure of Social Action* from this German sociologist best known for *The Protestant Ethic and the Spirit of Capitalism*.  
**Answer:** Max Weber
- 10 Parsons drew on this man’s ideas of how elites circulate in *Mind and Society*, but this Italian is better known for his work in economics such as *Manual of Political Economics*, where he introduced his namesake efficiency.  
**Answer:** Vilfredo Pareto
- 10 Upon the urging of Elton Mayo, Parsons tried to adapt the techniques of this author of *The Future of an Illusion* and *Moses and Monotheism* in his investigation of industrial social structure he called the “professional complex.”  
**Answer:** Sigmund Freud
12. Highways screw everybody over, even in the movies. Name these films for ten points each.
- 10 In this 2006 Pixar film, Radiator Springs was nearly brought to ruin after a new interstate shifted tourists several miles away.  
**Answer:** Cars
- 10 A proprietor explains that he has ”twelve vacancies. Twelve cabins, twelve vacancies. They moved away the highway,” and that character’s last words of the film, in voiceover, are ”Why, she wouldn’t even harm a fly...”  
**Answer:** Psycho
- 10 In real life, National City Lines, a subsidiary of General Motors, bought Los Angeles Railway before the social fabric of an urban metropolis was torn asunder. In this film, Judge Doom buys out the Red Line despite the best efforts of Eddie Valiant.  
**Answer:** Who Framed Roger Rabbit
13. Identify these authors who wrote about characters confronting homosexuality in tiny cells for ten points each.

- 10 His autobiographical travel narrative, *Down and Out in London and Paris*, mentions an uncomfortable night in a spike's "locked, pitch dark cell" with a man who hasn't seen his wife in too long. His other works include *Animal Farm* and *1984*.  
**Answer: George Orwell or Eric Blair**
- 10 His *Falconer* tells the story of a drug-addicted professor who kills his brother and tries to stay straight in prison. He won the 1979 Pulitzer for his collected stories.  
**Answer: John Cheever**
- 10 Valentin, the socialist, has to put up with Molina, a homosexual who acts out his favorite movie scenes, in this author's *Kiss of the Spider Woman*.  
**Answer: Manuel Puig**
14. Alp-Arslan's victory was aided by a defection of Turkmen and by the treachery of Andronicus. For ten points each ...
- 10 Name this Seljuk victory of 1071 AD.  
**Answer: Manzikert**
- 10 The Seljuks defeated the army of what Christian empire?  
**Answer: Byzantine (prompt on anything to do with "eastern" and "Roman")**
- 10 This Doukas Byzantine emperor was killed on the field at Manzikert.  
**Answer: Romanus IV or Romanus Diogenes**
15. He's buried outside of Kabul in the open air instead of in an elaborate masoleum. For ten points each ...
- 10 Name this founder of the Mughal dynasty with a modest tomb.  
**Answer: Babur (prompt on Zahir-ud-din Muhammad)**
- 10 Calligraphy was added to the simple walls around Babur's tomb by this Mughal ruler who, when his father wouldn't hurry up and die, staged a revolt when Akbar was campaigning in the Deccan.  
**Answer: Jahangir (prompt on Selim)**
- 10 The site was further spruced up by this successor of Jahangir who ordered a mosque to be built. But that's peanuts compared to what he built to honor his wife, Mumtaz Mahal.  
**Answer: Shah Jahan (prompt on Khurram)**
16. In the second titular place, "the road of excess leads to the palace of wisdom," "prisons are built with stones of law," and "brothels with bricks of religion." For ten points each ...
- 10 Name this illustrated, dialectic poem of William Blake.  
**Answer: The Marriage of Heaven and Hell**

- 10 In *Marriage of Heaven and Hell*, Blake claims that this mystic Scandinavian author of *The Last Judgement* is the angel sitting at the tomb, and his clothes are the raiment of Jesus mentioned in Matthew 28.  
**Answer: Emanuel Swedberg or Emanuel Swedenborg**
- 10 For the story of how lust, regulated by reason, turns an individual to a shadow of his former self, Blake refers to reader to this author's *Paridise Lost*.  
**Answer: John Milton**
17. After his wife goes out dancing, he decides to entrance every man in Pohjola, but an old farmer, Nasshut, survives to poison him. For ten points each ...
- 10 Name this character, who tries to woo the daughter of Louhi.  
**Answer: Lemminkäinen**
- 10 Lemminkäinen is a character in what epic poem?  
**Answer: Kalevala**
- 10 The Kalevala was collected by this doctor and author of *Kanteletar*.  
**Answer: Elia Lönnrot**
18. Some authors choose really funky names for their characters. If you can get the character name from plot clues, you'll get ten points. If you need a more mundane clue, you'll get five.
- 10 This character from *The Rivals* said "If I reprehend any thing in this world it is the use of my oracular tongue, and a nice derangement of epitaphs!"  
 5 This character's name has since come to stand for the very mistakes she and President Bush comment [sic] every day.  
**Answer: Mrs. Malaprop**
- 10 A member of the Peter Pinguid Society in *The Crying of Lot 49*, he doesn't transport any gammetes in the book.  
 5 These tubes connect the ovaries to the uterus.  
**Answer: Mike Fallopian**
- 10 Sometimes known as Miss Marie, she and Poland visit Henry, Claudia's family's border in *The Bluest Eye*, but didn't stop his advances.  
 5 Neither did this real life defensive structure named after 1929-31 French War minister stop Germany's advances.  
**Answer: Maginot Line**
19. Questions about number theory for ten points each.
- 10 If you sum this function over all integers less than or equal to  $x$ , you have the Mertens function, and it is a measure of how many unique factors an integer has.  
**Answer: Möbius function**

10 If the Möbius function is zero, then it means that the number has this property, defined as having no repeated factors.

**Answer:** square-free or quadratfrei

10 Korselt's criterion defines them as squarefree numbers  $n$  such that for all prime divisors  $p$ ,  $p-1$  divides  $n-1$ , and, because they are composite numbers that satisfy Fermat's little theorem, they are called pseudoprimes.

**Answer:** Carmichael numbers

20. When his wife died, she left much of her money to a San Diego public radio station. For ten points each ...

10 Name this entrepreneur who took over the franchise rights for a San Bernadino restaurant and then opened up another location next to the original to drive them out of business.

**Answer:** Roy Kroc

10 He lied about his age in order to take what post during the end of World War I?

**Answer:** ambulance driver (accept equivalents)

10 In the same corps, this man also lied about his age. He was the creator of *Alice in Cartoonland*, a cartoon he produced with Ub Iwerks before his Kansas City company went bankrupt.

**Answer:** Walt Disney