

YOUNG FENIMORE LEE

30 Vocaloid/vtuber/orgo/cs/The Simpsons/Maplestory/??? commonlinks. I expect everything to be converted. Similar to [these questions](#) I wrote for another tournament, but like, harder and more weeb.

(Questions start on the next page.)

1. **This thing is the subject of Hiiragi Magnetite's song "Marshall Maximizer," during which it sends "falling to hell" a person who initially "scoffed at 14 pounds." It has nothing to do with TikTok, but Ayumu Kasuga from (+) Azumanga Daioh appears in a popular meme about this thing that features the caption "I'm chilling, vibing, doing hot girl stuff." Harry Daghliah and Louis Slotin are people who (*) "tickled the dragon's tail" of this object. A Kyle Hill video highlights his own role in popularizing memes about this object, which feature cute anime girls propping up a hemisphere with a flathead screwdriver. For 10 points, name this object that killed two physicists during two separate criticality accidents.**

ANSWER: **demon core** [accept **Rufus**]

2. **A popular OST from this series plays in the background of a viral Weibo video of a child pointing out the mistakes in an exhibit at the China Science and Technology Museum. Every manga chapter for this series ends with a section called Haru's Haru Haru Interview. Probably the most popular song from this series has a melody beginning with the notes: (+) "D-sharp, D, C / C, C, C." Its supporting characters include a lamb called Lambo, as well as the tonfa-wielding Hibari and his adorable pet bird Hibird. Its titular character holds the title of Sun Arcobaleno and is the World's Strongest Hitman, despite having the body of a two year old child. For 10 points, name this anime whose protagonist, (*) Tsuna, learns to harness the power of the Dying Will Flame while training to become the tenth generation boss of the Vongola mafia family.**

ANSWER: Katekyo Hitman **Reborn!**

3. *Note to players: The answer to this tossup is NOT a symbol you can type. **It's not the circle with a plus sign in it, but this symbol is found in a certain Wikipedia table within the row "Suspected Infeasible."** The leader of a group partially named for this symbol was quoted as saying "if you're dumb enough to eat it, you deserve to die," in reference to one of their food products. This non-alphanumeric symbol is found in the name for (+) Valiant's theorem, which places computing the 01-permanent into a complexity class with this symbol. A group partially named for this symbol released an album literally titled (*) *Bigger Than Jesus*, whose cover parodies the cover of *Abbey Road* but with its members walking on water. It's also an adjective, having less of which names a reaction that uses a catalyst consisting of titanium (tetra)isopropoxide and diethyltartrate. For 10 points, name this quality, the highest degree of which is not possessed by the tool in the shed I am.*

ANSWER: **‡** [or **sharp**; do not accept or prompt on "**#**" or equivalents]

4. *Description acceptable. **The "poison" type of this action names the skill of Masquerade Rock Singer, Misery in Puzzle and Dragons. A 2008 video of Brendan Gregg shows him inducing disk latency in this way. This is the second word in the name of a boba chain that has exactly two US locations: in (+) Kirkland and Seattle. Gary Blauman and Artillery Arthur were used to illustrate the cyclical transfer of this thing. In middle school, our science teacher who was a physics PhD showed us a video of a scientist named Masaru Emoto who altered (*) the structure of ice in this manner. Howard Dean's presidential campaign was tanked after he did this action. It's not fighting, but why did Rorschach only make paintings of my parents doing this to each other? For 10 points, name this action I must do except I have no mouth.***

ANSWER: **yelling** [or **screaming**; accept other synonyms too]

5. **The characters 45MW.TRG are engraved on the side of an object of this name. Normal Arkarium drops a pendant of this name. This is the nickname of the athlete with the most World's Strongest Man titles, Mariusz Pudzianowski. In a (+) control flow graph, a node d is this type of node with respect to a node n if every path from n must go through d . "[This word] of the Universe" is Boros's title in *One Punch Man*. This is the name of a roller coaster at Kings Dominion formerly known as Batman: Knight Flight and is the world's longest floorless coaster. For 10 points, give this name of the (*) guns carried by Enforcers like Akane Tsunemori in Psycho Pass.**

ANSWER: **Dominator**

6. **This is the name of the hotel in which Special Division 4 encounters the Eternity Devil. A magnetic phase transition of this name in alpha-hematite is sometimes referred to as the spin-flop transition. This is the surname of the physicist who coined the term "coefficient of friction." It's not Smale or Thurston, but a namesake surface with four-fold rotational symmetry is the halfway model for sphere eversion named for a (+) blind topologist of this surname. This is the surname of the author of *The Green-Eyed Dragons and Other Mathematical Monsters* who wrote some other textbooks subtitled (*) "For the Enthusiastic Beginner." For 10 points, give this surname of the author of *Introduction to Classical Mechanics*.**

ANSWER: **Morin** [accept **Morin Hotel**, **Arthur Morin**, **Bernard Morin**]

7. **In the Season 27 episode “Girls Who Code,” Marge gets Homer fired after she makes a social media post beginning with this word. In a song of this title, the singer feels “ether’s lingering chill” at 2 AM. A hardware vulnerability of this name exposed in 2018 is also known as (+) Rogue Data Cache Load. When the environment and genetic predisposition reinforce one another, the mutational form of a process of this name occurs. It is the name of the most popular song by iroha(sasaki). Magnox is a type of device designed to (*) prevent events of this name from happening. It doesn’t start with a “b,” but events of this name may be contrasted with tantrums. For 10 points, name these events during which operators may press a SCRAM button, which stands for “safety control rod actuator mechanism.”**

ANSWER: **meltdown** [accept “**Roshin Yuukai**”]

8. *Two answers required.* **One of these people is the protagonist of what is probably You Higuri’s most successful manga. Some dude gets isekai’d into a character based on the other one of these people in the manhwa *How to Win My Husband Over. After the Holy Grail War, in Fate/Requiem, these two figures serve as concierges at a hotel in Akihabara. The music video of a song about these two figures features six characters playing a game of three-man chess, with the title (+) poison taking the form of pieces; that song is the “~grace edition~” of a song by Kurousa-P whose original version features KAITO and Hatsune Miku as these two historical figures. For 10 points, name these (*) probably incestuous siblings who used a poison called Cantarella during the papacy of Pope Alexander VI to poison people.***

ANSWER: **Cesare** Borgia and **Lucrezia** Borgia [prompt on **Borgias**]
(Kurousa-P is the producer of Senbonzakura.)

9. *Specific term required.* **In the opening to “Kamouflage,” Mori says she could be your “this term,” which is also the subject of “the other saying I like so much more” in her “Excuse My Rudeness, But Could You Please RIP?” The Pixiv Encyclopedia page for this term implicates Tsukino Miu and Computer Girl Shiro. In a song of this name, the singer (+) “addresses these false rumors” by asserting that she’s “no filthy hopeless coomer” and declares that she “don’t even know what sex is”; that song is the second most viewed (*) Nyanners video and is a parody of a non-weeb song whose title is homophonous with this term. It technically means “clean,” but is also used to refer to wholesome vtubers. For 10 points, name this Japanese term that sounds the same as the most famous song by Doja Cat.**

ANSWER: **seiso** [or **清楚**; accept **say so**]

10. **This character appears in a Monamin portrait where they are a “premium service partner” for the Russian internet provider EVO. Edited clips of this fictional character show them being crushed by Optimus Prime on March 20, 2020, introducing themselves to the “Mask Off” instrumental, welcoming you to Chilis and (+) “bappin’ on the haters, bappin’ the hoes” in videos by dakooters. He later becomes Master Chief’s boyfriend in the Pantsahat series. Cosplay and fanart of this character sometimes depict them holding a Monster energy drink. In Season 2 Episode 9 of their namesake series, beloved Youtuber (*) Femboy Fishing dresses as this character. In another work, this descendant of Charles Martel is trapped in the form of a myrtle tree by Alcina; that work is the Carolingian Cycle. For 10 points, name this “Rider in Black” introduced in *Fate/Apocrypha*.**

ANSWER: **Astolfo**

11. **If you get a message expressing love for these animals from someone on AWS Security, that probably means they left their computer unlocked again. This is the 4th pet unlocked in the Pet House in Clash of Clans. In (+) *Raumschach*, this piece moves triagonally. A 2010 endless runner published by Adult Swim features a robot of this type. The King James Bible translates re’em to this word, which also names the ship from Tintin. An invisible pink one of these deities is used as a Flying Spaghetti Monster sorta thing. Aileen Lee coined a term that refers to (*) startups worth over a billion as these animals. For 10 points, name these mythical creatures that are sometimes compared to the Chinese qilin.**

ANSWER: **unicorn**

12. *Description acceptable.* **The NASA Railroad ferried Apollo astronauts to an area named for these things that was used as a lunar testing ground. Christian Ludloff runs a website named for these things that accurately calls itself “The world’s leading source for technical x86 processor information.” Gawr Gura pays for food and clothes using these things in (+) *Shark’d*. A problem about these constructs can be resolved using supervaluation. Pink noise is reproduced by a model named for these constructs that is sometimes abbreviated as BTW and displays (*) self-organized criticality. These constructs are the subject of a paradox caused by vague predicates and named for Sorites. For 10 points, name these constructs that begin to slump above a critical angle of repose.**

ANSWER: **sandpile** [accept **heap of sand**; prompt on partial]

Link1: <https://cdn.discordapp.com/attachments/725561975198711842/1024166453647245382/unknown.png>

13. *Specific term required.* **This substance is the name of the leader of the Rose-Order of Knights from the anime Gate. Two ligands whose name sounds a lot like this substance are found in this compound [paste link1]. This clue is not unique, but this substance is often stored using (+) hurricane glasses. A song with this substance in the title was originally going to be called "People Need Other People" and talk about Humphrey Bogart instead of this substance. It may help to notice that the aforementioned ligands are derived from a (*) vicinal diol whose namesake coupling forms a C-C bond between two carbonyls. For 10 points, name this drink made by mixing white rum, coconut cream and pineapple juice.**

ANSWER: Pina Colada

Link: <https://cdn.discordapp.com/attachments/725561975198711842/1024177219091841154/unknown.png>

14. **A portmanteau of a certain town and this word is used to refer to players who spend all their time socializing in that town and dressing up in cash shop items. This word and "Rain" name this vtuber: [link]. This word is the first in the name of the song that plays during the scavenger hunt between Mr. Burns and the Rich Texan in "The Seemingly Never-Ending Story." This word is repeated twice in the name of the producer behind songs like "3331" and (+) "Hello/How Are You." You should never, ever (*) stop in the middle of an event partially named for this word. For 10 points: "This term for a long-handled gardening tool can also mean an immoral pleasure seeker."**

ANSWER: hoe [accept Rainhoe, hoedown, hoehoe-P, Henehoe]

Link1: <https://cdn.discordapp.com/attachments/725561975198711842/1055662117111463996/latest.png>

Link2: <https://cdn.discordapp.com/attachments/725561975198711842/1055662243947229254/Z.png>

Link3: <https://cdn.discordapp.com/attachments/725561975198711842/1055662318912032768/latest.png>

15. **A character of this name is tasked with getting shovels and more popsicle sticks. When Eren's titan is carrying the boulder towards the hole in the wall, a character of this first name helps Mikasa kill the last titan in his way. Lupus is to House as a (+) law of this name is to Legal Eagle. It may help to know that it's never lupus until it is. Here's a picture of the Attack on Titan character I was talking about: [link1]. This character from Hannah Montana is also named this: [link2]. And here's the other character I mentioned: (*) [link3]. For 10 points, name this law used to prosecute the Mafia.**

ANSWER: Rico [or RICO]

16. *IUPAC name required.* **Dissociation constants of 4-substituted derivatives of this hydrocarbon were used by Cole, Mayers and Stock to provide evidence for the Kirkwood-Westheimer model. This hydrocarbon is fused with cyclohexane to form the skeleton of patchoulol, while it is fused to two benzene rings in the antidepressant maprotiline. It's not benzoic acid, but derivatives of this hydrocarbon were used by Roberts and Moreland to study the electrical effects of substituents on reactivity in saturated systems. (+) Twistane was originally synthesized using a framework consisting of this hydrocarbon. Hydrogenation with Adams' catalyst converts barrelene to this hydrocarbon. For 15 points, name this bicyclic with D3h symmetry and 8 carbons. (*)**

ANSWER: bicyclo[2.2.2]octane

17. **Mori Calliope and Gawr Gura say they'll "reclaim [this polity] tonight" towards the end of "O." By winning Season 1 of an Mnet reality competition, Mamamoo conquered this polity. This polity created "Chitty Chitty Bang Bang," the (+) opening to Season 1 of Paripi Koumei. Rooster Teeth and Shaft co-created a recent instance of this polity, which first appears alongside its ruler, Weiss Schnee, in Episode 4 of its namesake series. That 2022 series is set in the world of Remnant and stars a main character who designed her own (*) sniper-scythe. For 10 points, name this polity, an ice instance of which names the 2022 RWBY series.**

ANSWER: the queendom [accept RWBY: Ice Queendom, RWBY: Hyousetsu Teikoku]

18. **An anime about this profession is primarily set at Eden Hall and centers around the prodigy Ryuu Sasakura. A now-deleted Youtube video loops an 8-bit animation of a character with this profession while "Just the Two of Us" plays; that character is Jill from (+) VA-II Hall-A. Sakura Utako trains Mishima Hitomi in this profession in Hinamatsuri. Characters often depicted working in this profession include (*) Mirajane from Fairy Tail and Kurogiri from My Hero Academia. Bart works this kind of job for the mob in "Bart the Murderer." For 10 points, name this profession of Decim from Death Parade.**

ANSWER: bartender

Links: <https://cdn.discordapp.com/attachments/725561975198711842/1028803005786632373/unknown.png>

<https://cdn.discordapp.com/attachments/725561975198711842/1028802956079943722/unknown.png>

<https://cdn.discordapp.com/attachments/725561975198711842/1028802538172067931/unknown.png>

19. **The light of evening lies to the right and left of one of these objects in a Furu-produced Miku song that opens with a melodica solo. These are symbols associated with these objects: [links]. These inflexible objects are associated with (+) Homma and Shushunova. The terms cat, wolf, and switch wolf are associated with these objects. In Final Destination 5, a (*) fallen screw on one of these objects sets off the chain of events that kills Candice. For 10 points, name these objects that, along with floor, bars, and vault, make up the four women's gymnastics events.**

ANSWER: balance beam [or BB]

20. **This is the name of the prison Sikorsky escapes from in Baki, as well as the surname of Walter, the Housemaster of Dorm 5 at Eden Academy. A late professor with this surname taught 206 and 215 and created a popular problem set generator for (+) orgo. This is the name of the opening [read slowly]: e4 e5, Nf3 Nc6, Bc4 Bc5, b4. This is the surname of Soul from *Soul Eater* and the guy whose namesake restaurant chain are just a worse (*) Cracker Barrel. Oxazolidinones exemplify a type of chiral auxiliary named after a chemist with this surname. For 10 points, name this surname, a ton of which is found in the city where Northwestern is located.**

ANSWER: Evans

21. **In Season 17, this is the first component of the alias Lisa uses in order to take math in the other half of Springfield Elementary. Remember Bernard Morin, the blind mathematician from the Morin tossup? He was the first to explicitly parameterize a (+) surface named for these people. A person of this type was walking home at 6:48 with the blood on his hand from a broken nose in an Alec Benjamin song partially titled for them. *sniff* *sniff* i-is that a [one of these people] I smell? In high school, after my friend Patrick didn't get a certain promotion in a group named for these people, I joked it was because he didn't sell enough (*) mulch and popcorn. Vulture, Electro, Green Goblin and 60's Spider-Man Rhino feature in the most common instance of a meme featuring me and these people. For 10 points, name these people, a part of which is often cited as part of the etymological origin of the term "sussy."**

ANSWER: boys [accept Jake Boyman, Boy's surface, boysmell, "Boy in the Bubble," Boy Scouts of America, or me and the boys]

22. *Description acceptable.* **The blogger yone2 created a circuit board of this type called the AZPR EvBoard. A program of this type was submitted by Don Yang for the 2011 Obfuscated C competition that produced a shorter version of another program of this type when run, which produced another, even shorter version of a program of this type when run. Tamuna Tsertsvadze authored a book titled after "[a popular character of this type] and Friends." A work closely related to a subgenre of works of this type is titled (+) *Ubunchu!*; works within that subgenre often feature programming languages, operating systems and web browsers. (*) *Cells at Work!* is an example of this type of work, which gives certain characteristics to nonhuman things. For 10 points, name or describe these types of works, exemplified by characters like OS-tan and Earth-chan.**

ANSWER: they are moe anthropomorphisms [accept anything mentioning anime girls or waifus; prompt on answers mentioning anime characters without specifying that they are female; prompt on anything mentioning weeb shit]

23. **A Forensics problem from 2018 TJCTF was named for a "State Bank" of this name. In a tavern located on a street of this name, O. Henry supposedly thought of the idea for "The Gift of the Magi." In a story about a school of this name, a member of their math team demands that (+) Gideon submit to him. A "Letter" of this name titles a book about Lumon Industries from *Severance*. A vessel of this name denoted CV-2 was critically damaged in the first (*) carrier battle in history at Coral Sea. For 10 points, give this name of the Horse Capital of the World, where 2018 and 2019 NASAT was held.**

ANSWER: Lexington

24. *Description acceptable.* **Hamilton and Nicewicz performed this action by using 9-mesityl-10-methylacridinium perchlorate and 2-phenylmalonitrile as a redox-cycling source. Grubbs performed this action using palladium, acid and ruthenium in a triple relay catalysis system. The (+) protagonist performs this action in the last stanza of Buzzer Lust V: A Sonnet to SCIENCE! This action precedes oxidation with peroxide. In the Kharasch effect, this happens because radicals, as exemplified by (*) HBr due to the peroxide effect. For 10 points, name this action that sees a hydrogen atom bond to the carbon with fewer initial hydrogens.**

ANSWER: breaking Markovnikov's rule [accept equivalents]

25. **This game is being played in the flashback that opens Episode 1 of *Asobi Asobase*. Yaya Higuchi is the main character of a manga named after this game. In another show, Futaba challenges its title character to this game, because she's jealous her friend (+) Akkun admires their fidget spinner skills. It also lends its name to Ashirogi Muto's newest series. The Brightwell Quotient is used to break ties in many tournaments for this game. The Pastimers Club fails to earn 10,000 yen in club funds after all three members lose to their class president in this (*) board game, which Aharen from *Aharen is Indecipherable* is also really good at. It's not related to four in a row, but for some reason an 1895 New York Times article describes this game as "like [Gomoku] played with 64 pieces."** For 10 points, name this board game played with pieces that are black on one side and white on the other.

ANSWER: **Reversi** [or **Othello**]

26. **Blocks of this name used in manufacturing are sometimes referred to as tombstones or tooling towers. These objects are placed on namesake tables with precisely spaced holes cut in them mostly used for welding things. In property law, property of this type is contrasted with chattel property. (+) In-line, delegate and implicit functions of this name are used to initialize functions such that they satisfy preconditions during software testing. Apparently it also refers to "the whole list of games to be played by a given team" in British English or something? Any physical property (*) permanently attached to the land is considered this type of property. For 10 points, name these objects that come in "light" and "plumbing" varieties that you can't move.**

ANSWER: **fixtures**

27. **A book named for these objects opens with a Ravi Vakil quote. A region named for these objects has volume pi-h-cubed over 6. A myth about the origin of these objects says they were invented to replace tied-up live rabbits. An infinitely large one of these objects was created by (+) Evan Chen. After Bart shows George Bush his hands are clean, Bush mutters that he "probably stole [one of these objects]." Eminem thinks you're using way too many of these objects. Homer exclaims (*) "Outrageous!" after Apu tells him the name of one of these things when he cooks dinner for the Simpsons. For 10 points, name these objects that, with envelopes, are used to perform calculations on.**

ANSWER: **napkins**

28. **With CZ2128, this letter names the automaton battle maid in the Pleiades Six Stars. This letter names the only uncharmed baryon with +2 charge. This letter names the two main ways Git pack files store objects which are (+) then "resolved" during git clone. The absolute value of a quantity denoted by this letter roughly equals the percent moneyness of an option. This letter names Pokémon found in the Holon region whose type differs from their usual type. A function of this name is generalized with the Iverson bracket and equals (*) one if its two inputs are equal and zero otherwise. This letter, if constructed with resistors, is equivalent to an arrangement in a Y shape. For 10 points, SkyMiles are earned by flying with an airline of what name?**

ANSWER: **delta**

29. **In *Legacy of the Void*, units of this name can receive the Reconstruction upgrade to heal themselves when damaged. Zekken and Kanpeki are associated with an esports org of this name. You can biopsy structures of this name to see if (+) cancer has spread beyond the original tumor. Dogs with Yusho disease and cats with Minamata disease are historical examples of organisms of this name. Values and structures of this name are used as (*) traversal path terminators in linked lists. The canary in the coal mine is a classic example of species of this name. For 10 points, name the VALORANT team Tenz plays for.**

ANSWER: **sentinel**

(Apparently Haldane came up with the idea of the canary in a coal mine?)

30. **It's not concrete, but this substance is used by artists like Edgar Wenner and Kurt Wenner to create their works. Carl heard they bury the toxic waste drums from the plant at an abandoned location associated with this substance in (+) "Marge vs. the Monorail," though it turns out Mr. Burns was actually just sticking them in trees in the park. The Swedish word for this substance names the popular drawing app Krita. A viral video of an artist working with this substance is titled (*) "His Hand Doesn't Even Move." If you eat a green banana it sorta leaves your mouth tasting like this substance. If you hold a piece of this substance and push the opposite side against a surface while angling it down a little it'll skip and sound cool. One of Great Big Story's most popular videos is about mathematicians hoarding the Hagaromo brand of this substance. For 10 points, name this substance that climbers and weightlifters sometimes bring brushes to the gym in order to wipe off.**

ANSWER: **chalk**