



2024-25 Post-Secondary Championship (T3) – Pack 3

Head Editor: *Paul Kasiński*

Writers/Editors: *Odin Fisher-Skau, Max Gedajlovic, Ian Greig, Paul Kasiński, Yadu Kukenthiran, Jenny Mao, Malhaar Moharir, Jack van Nostrand, Ryan Sharpe, Joe Su, Isaac Thiessen, Zhongtian Wang, Adrian Wong*

PACK 3

5-Part Blitz

1. What is Mexico's main port city, located in a namesake state on the Gulf of Mexico?
A: Veracruz
2. In what algorithm is a sorted list repeatedly cut in half in an attempt to find a specific value?
A: binary search
3. What mnemonic can be used to remember the French verbs that use être for the passé composé?
A: DR MRS VAN DER TRAMP (accept: DR AND MRS VAN DER TRAMP)
4. The Battle of Kadesh is notable for the thousands of what kind of vehicles used by both armies?
A: chariots
5. What company, owned by Sleep Country since 2018, rose to prominence through e-commerce sales of made-in-Canada mattresses?
A: Endy sleep

Double Jump

6. What leader was succeeded by Ogedei, Guyuk, Mongke, and Kublai after founding the Mongol Empire?
A: Genghis Khan ["CHING-iss HHON"] (accept: Temujin)
7. Who was Genghis and Ogedei's leading military general, renowned for his ability to coordinate complex troop movements over a grand scale, often together with fellow general Jebe ["zev"]?
A: Subutai

Double Jump

8. What is the y-intercept of the factored quadratic equation y equals x minus 2 times x minus 8?
A: y equals 16 (accept: (0,16))
9. What is the y-value of the vertex of that equation, y equals x minus 2 times x minus 8?
A: y equals -9

Set of 4

10. Buildings taller than 150 metres are generally referred to by what term?
A: skyscrapers
11. What city's Home Insurance Building is often considered the first modern skyscraper?
A: Chicago
12. The Chicago-based firm Skidmore, Owings & Merrill designed what building, currently the tallest in the world?
A: Burj Khalifa
13. After a 7-year pause, construction re-started this January on what building in Saudi Arabia, planned to pass the Burj Khalifa and become the world's first kilometre-tall building?
A: Jeddah Tower (accept: Burj Jeddah)

Jackpot

14. Part 1: Along with the adjective “Porteno”, what phrase gives its name to a musical work that was rearranged by Leonid Desyatnikov to feature a solo violin, instead of a tango quintet in the original composition by Astor Piazzolla?
15. Part 2: This phrase gave its name to Nicolas Poussin’s set of four paintings of Old Testament figures against different landscapes.
16. Part 3: A band named for its frontman and for this phrase had hits like “Who Loves You?”, “Walk Like a Man”, and “Sherry”.
17. Part 4: This phrase gives its name to a company at which Rudy Giuliani accidentally held a press conference to discuss Donald Trump’s attempt to overturn the 2020 election.
A: the **four seasons** (prompt on: the seasons) (reject: the four season)

Set of 3

18. What event was held in Montreal to celebrate the centenary of Confederation?
A: **Expo 67** (prompt on: world's fair, world exposition)
19. What mayor brought the Expo to Montreal and now gives his name to a park on the former Expo grounds?
A: Jean **Drapeau**
20. Moshe Safdie used interconnected concrete cuboids to build what housing complex for the Expo?
A: **Habitat 67**

5-Part Blitz

21. The Mackenzie River flows into what marginal sea of the Arctic Ocean?
A: **Beaufort** Sea
22. Whose cruel rejection of Sibyl Vane creates the first sinister mark on a painting of him that magically reflects his vices?
A: **Dorian Gray** (accept either bolded part)
23. Tally-ho, Bee, and Bicycle are common brands of what recreational items?
A: playing **cards** (accept: decks/packs of **cards**)
24. What webcomic spawned a spinoff game called *Hiveswap* in which a human girl gets stranded on Alternia?
A: **Homestuck**
25. Perfluoroalkyls are also referred to as what kind of chemicals, due to their long-lasting presence in clothing, cookware, and packaging items?
A: **forever** chemicals

END OF FIRST QUARTER

SECOND QUARTER

Splits: Poisons & Competitive Swimming

Poisons

26. It is dangerous to idle a car in a garage while the door is closed due to the production of what poisonous gas?
A: **carbon monoxide** (accept: **CO**)

27. What element's radioactive 210 isotope was used to assassinate Alexander Litvinenko?
A: **polonium** (accept: **Po**)
28. Aside from ethanol, bootlegged liquor can contain noticeable amounts of what other alcohol, which can cause blindness when ingested?
A: **methanol** (accept: **methyl alcohol**, **wood alcohol**)
29. The radioactive decay of uranium ores can cause what poisonous gas to accumulate in the basements of homes?
A: **radon** gas (accept: **Rn**)

Competitive Swimming

30. A long-course swimming pool, used at the Olympic Games, is how many metres in length?
A: **50** metres
31. How many gold medals did Michael Phelps win at the 2008 Beijing Olympics?
A: **8**
32. Formerly known as FINA, what international governing body oversees international events in swimming, as well as diving, synchronized swimming, and water polo?
A: **World Aquatics**
33. The women's 800-metre and 1500-metre world records are both held by what American?
A: Katie **Ledecky**

Double Jump

34. PDVSA is the state-owned oil company of what country, the only original member state of OPEC not in the Middle East and to this day the only member in South America?
A: **Venezuela**
35. In 2024, President Chan Santokhi of which other South American country announced that each of its citizens would receive a \$750 dividend from revenues from a new oil development in the country?
A: **Suriname**

Double Jump

36. Squamates are the largest order of what class, which also includes testudines ["tes-TOOD-in-eez"] and crocodilia?
A: **reptiles** (accept: **reptilia**)
37. What clade of animals includes reptiles and birds, as well as their common ancestors? This clade is one of two major divisions of amniotes.
A: **Sauropsids** (accept: **Sauropsida**)

Set of 4

38. What director provided a series of 10 cryptic clues such as "Where is Aunt Ruth?" and "Did talent alone help Camilla?" to help viewers understand his film *Mulholland Drive*?
A: David **Lynch**
39. In his final acting role, in *The Fabelmans*, Lynch portrayed what other real-life director, whose Westerns inspired Steven Spielberg?
A: John **Ford**
40. What Lynch regular made his debut as Paul Atreides in *Dune* and also portrayed special agent Dale Cooper on *Twin Peaks*?
A: Kyle **MacLachlan**

41. In a 1980 Lynch film, John Hurt portrays what Victorian-era man from London who was ostracized due to his physical deformities?
A: Joseph **Merrick** (accept: John **Merrick**, the **Elephant Man**)

4-Part Mystery

42. Potassium chloride and what other substance are formed when potassium hydroxide reacts with hydrochloric acid?
A: **water**
43. What kind of drink is produced in the Niagara region, as well as other viticultural areas such as Bordeaux?
A: **wine**
44. Nerve damage, paralysis, leathery skin, and physical deformities are all symptoms of what slightly-contagious disease, also known as Hansen's disease?
A: **leprosy** (prompt on: Hansen's disease)
45. Which Deathly Hollow did the second of the Three Brothers receive from Death?
A: **Resurrection Stone** (prompt on: the Stone)

5-Part Blitz

46. What country pursued a foreign policy of "splendid isolation" from 1822 until allying with Japan in 1902?
A: **United Kingdom** of Great **Britain** and Ireland (accept either bolded part) (accept: the **UK**, the **British Empire**)
47. What does light bend towards when it enters a medium with a higher index of refraction?
A: **normal**
48. In Egyptian mythology, what underworld do people enter upon death?
A: **Duat**
49. What two-word term refers to the process wherein sediment on a beach is transported parallel to the shore?
A: **longshore drift** (accept: **littoral drift**)
50. Whom does Emily Dickinson claim to be in a poem that exclaims "Then there's a pair of us!"?
A: **nobody**

END OF FIRST HALF

THIRD QUARTER

Splits: Cooking Terms & Philosophical Thought Experiments

Cooking Terms

51. Alternatively named allumette, what cutting technique results in food shaped into long, thin strips?
A: **julienning** (accept word forms) (accept: **French cutting**)
52. Often performed using stock or wine, what cooking technique removes browned food residue at the bottom of a pan by dissolving it with liquid?
A: **deglazing** (accept other verb tenses)
53. What technique facilitates the crystallization of cocoa butter in cooled liquid chocolate so that it is smoother and glossy in solid form?
A: **tempering**
54. What process occurs when fresh food is boiled, removed after a short period, and placed into cold water?
A: **blanching** (accept word forms)

Philosophical Thought Experiments

55. Introduced by Phillipa Foot, what thought experiment asks someone to choose whether to divert a train car to save many lives at the cost of fewer?
A: **trolley problem**
56. What author's *Proslogion* prompted Gaunilo to formulate his "lost island" thought experiment, an objection to this author's ontological argument?
A: Saint **Anselm** of Canterbury
57. Who proposed a thought experiment in which people are asked to design a just society without knowing what their lot in life will be, or from behind a "veil of ignorance", in his book *A Theory of Justice*?
A: John **Rawls**
58. What kind of creature can Achilles never catch up to no matter how quickly he runs, in a thought experiment by Zeno?
A: **tortoise** (accept: **turtle**)

Set of 3: Bang!

All answers begin with "Bang".

59. Sirah raps "Shout out to all my lost boys, we rowdy" to open what Skrillex song?
A: **"Bangarang"**
60. Home to the so-called Silicon Valley of India, what is the former official name of the capital of Karnataka?
A: **Bangalore**
61. "Permission to Dance" and "Dynamite" are hits by what boy band?
A: the **Bangtan Boys** (accept: **Bangtan Sonyeondan**)

Jailbreak

62. Who signed a record-setting \$765 million-dollar contract this offseason to leave the Yankees for the Mets?
A: Juan **Soto**
63. Spell the name of the Greek muse of memory, Mnemosyne ["nem-AW-sin-ee"].
A: **M-N-E-M-O-S-Y-N-E**
64. What contronym can mean close scrutiny or an accidental omission?
A: **oversight**
65. "No Church in the Wild" is the opening track of what collaborative album by Jay-Z and Kanye West?
A: **Watch the Throne**
66. Who wrote the operas *Agrippina*, *Almira*, and *Rinaldo*?
A: George Frideric **Handel**
67. The only legitimate child of Lord Byron, what woman is generally considered the first ever computer programmer?
A: Ada **Lovelace**
68. In 1830-31 and 1863, what modern-day country unsuccessfully rose up against rule by Russia, one of the countries that had partitioned it?
A: **Poland**
69. Aside from Gukesh, who is the only other Indian player to have been the World Chess Champion?
A: Viswanathan **Anand** (accept: Vishy **Anand**)
70. What peninsula makes up the Asian part of Egypt?
A: **Sinai** Peninsula
71. What cynical teenager aimlessly wanders New York after being kicked out of boarding school in J. D. Salinger's novel *The Catcher in the Rye*?
A: **Holden** Caulfield (prompt on: **Caulfield**)

72. The cities of Ulan-Ude and Irkutsk lie near what deepest lake in the world?
A: Lake **Baikal**
73. What was the last animal to reach the Jade Emperor in the Great Race due to its laziness, thus becoming the last animal in the Chinese zodiac?
A: **pig** (accept: **boar**)
74. Secret agent Rico Rodriguez is the protagonist of what series of video games, in which he overthrows corrupt dictatorships?
A: **Just Cause**
75. A pair of centrioles form what organelle, used to anchor spindle fibers in cell division?
A: **centrosome**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: Who wrote the play *A Passing Fancy* as well as the books *Faster Than the Speed of Love* and *Wish It, Want It, Do It*?
77. Part 2: This fictional character's love interests have included the transgender war veteran Ida Davis and the excessively dim-witted Gillian.
78. Part 3: After being hit by a car while playing road hockey, this character was controversially killed off for several episodes in 2013 before his life was saved by a family member travelling back in time in a Christmas episode.
79. Part 4: The pet of Meg, Chris, Lois, Peter, and Stewie, this is the dog on *Family Guy*.
A: **Brian** Griffin (prompt on: **Griffin**)

Streak

80. Name up to every feature-length movie in the Marvel Cinematic Universe that features Paul Rudd.
- A: **Ant-Man**
- A: *Captain America: **Civil War***
- A: **Ant-Man and the Wasp**
- A: *Avengers: **Endgame***
- A: *Ant-Man and the Wasp: **Quantumania***

Streak

83. Name up to all of the five most populous members of the European Union.
- A: **Germany**
- A: **France**
- A: **Italy**
- A: **Spain**
- A: **Poland**

Set of 4: Winter

85. What city hosts the Western Hemisphere's largest annual winter festival?
A: **Quebec** City
86. What three-letter acronym refers to the condition in which the dark and cold of winter cause temporary depression?
A: **SAD**
87. What Shakespearean play opens with the line "Now is the winter of our discontent"?
A: **Richard III**
88. The USSR and what other country fought the Winter War?
A: **Finland**

12-Part Blitz

89. A narrow harbour between the "mainland" and "island" sections provides access from what megacity's namesake lagoon into the Gulf of Guinea?
A: **Lagos**
90. "Blinky" and Trevor Rainbolt are two of the top-ranked players of what online game?
A: **GeoGuessr**
91. Who wrote the novel *Go Set a Watchman*, only released shortly before her death in 2015?
A: Harper **Lee**
92. What Hebrew letter is used to denote infinite cardinal numbers?
A: **aleph**
93. What term refers to sound with frequency lower than what is audible by humans?
A: **infrasound** (accept: **infrasonic**)
94. If a clarinetist playing a low G presses the register key, what note is played?
A: **D** natural
95. What politician relieved the debts of poor Athenians and repealed Draco's laws, beginning Athens's transition to democracy?
A: **Solon**
96. What does the Greek root "brady-" mean in English, contrasted with its opposite, "tachy-" ["tacky"]?
A: **slow** (accept word forms)
97. What kind of objects were represented using round, yellow swirls in a painting made in an asylum in Saint-Rémy in 1889?
A: **stars**
98. Who wrote the novel *The Vegetarian* and won the 2024 Nobel Prize in Literature?
A: **Han** Kang
99. A white cube with a stylized black outline is the logo for what free video game-making engine?
A: **Unity**
100. Prussia became a great power under the rule of what enlightened despot?
A: **Frederick the Great** (accept: **Frederick II**) (prompt on: **Frederick**)

END OF GAME