



2024-25 High School Championship (T3) – Pack 2

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 2

5-Part Blitz

1. Which continent gets noticeably warmer when going westwards along the same latitude, due to the influence of the Gulf Stream?
A: **Europe**
2. What kind of structures was the medieval Mississippian culture known for building?
A: platform **mounds**
3. What is the simple present tense equivalent of the phrase "I have lain"?
A: **"I lie"**
4. How many two-digit Fibonacci numbers are there?
A: **five**
5. Name the three primary methods of heat transfer.
A: **conduction** (accept: **conducting**) AND **convection** (accept: **convecting**) AND **radiation** (accept: **radiating**)

Double Jump

6. A man in front of a mirror whose reflection also shows him from behind, a train emerging from a fireplace, and a green apple covering a man's face were all painted by what Belgian surrealist?
A: René **Magritte**
7. What title did Magritte give to a series of paintings depicting a night-time street beneath a day-time sky?
A: *The **Empire of Light***

Double Jump

8. What term refers to a pair of molecules like propyne and cyclopropene, which have the same chemical formula, but different molecular structures?
A: structural **isomers**
9. What specific kind of isomers have the same chemical formula and the same sequence of atoms, but different shapes in three-dimensional space?
A: **stereoisomers**

Set of 4

10. What novel opens with the sentence "It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife"?
A: ***Pride and Prejudice***
11. Who wrote *Pride and Prejudice*?
A: Jane **Austen**
12. What charming militia officer and former friend of Mr. Darcy turns out to live a rakish lifestyle in the novel?
A: Mr. **George Wickham** (accept either bolded part)
13. Daniel Cleaver and Mark Darcy are among the characters inspired by *Pride and Prejudice* in what 2001 movie starring Renée Zellweger?
A: ***Bridget Jones's Diary***

Jackpot

14. Part 1: Earl Webb holds the single-season record in what statistic, while Tris Speaker holds the career record with 792?
15. Part 2: The first and third basemen guard the lines and the outfielders play deep in a defence designed to prevent this kind of play.
16. Part 3: A special form of this play results from a ball getting stuck in the ivy at Wrigley Field, or a ball landing in fair territory and then bouncing over the fence.
17. Part 4: Line drives into the gaps between outfielders often result in this kind of hit, on which the batter reaches second base.
A: **doubles**

Set of 3: Artistic Collaborations

18. Bernie Taupin penned the lyrics for most of what musician's hits, such as "Your Song" and "Rocket Man"?
A: Elton **John**
19. Michael Martchenko illustrated most of what author's books, such as *50 Below Zero* and *The Paper Bag Princess*?
A: Robert **Munsch**
20. What brother of Billie Eilish has co-written and produced all of her full-length releases?
A: **Finneas** O'Connell (prompt on: O'Connell)

5-Part Blitz

21. What Latin term refers to the list of characters in a play?
A: **dramatis personae**
22. Composers with the middle names Clement, Luther, and Coolidge all share what first and last name?
A: **John Adams**
23. Famous for his soccer-related content, Darren Watkins is a YouTuber and streamer better known by what name?
A: **IShowSpeed**
24. What African country contains the world's largest church by area, the Basilica of Our Lady of Peace, in its capital city of Yamoussoukro ["yah-moo-SOO-krow"]?
A: the **Ivory Coast** (accept: **Côte d'Ivoire**)
25. What is the slope of the function y equals 4?
A: **0**

END OF FIRST QUARTER

SECOND QUARTER

Splits: Pokémon & Seafood

Pokémon

26. What artist serves as the franchise's primary art director and designed all of the original 151 Pokémon?
A: Ken **Sugimori** (accept: **Sugimori** Ken)
27. Name any of the first stages of the three Unova starters.
A: **Snivy** OR **Tepig** OR **Oshawott**

28. What is the only Kanto Pokémon that is a pure grass-type?
A: **Tangela**
29. What region do the base games of *Pokémon Scarlet* and *Violet* take place in?
A: **Paldea**

Seafood

30. What three-letter word refers to edible fish eggs?
A: **roe**
31. High levels of mercury in tuna are a result of what process, by which the concentration of such toxins increases going up a food web?
A: **biomagnification** (accept: **biological magnification**, **bioamplification**, **biological amplification**)
32. What is the word for freshwater eels in Japanese?
A: **unagi**
33. Fermented shark called hakarl is the national dish of what country?
A: **Iceland**

Double Jump

34. What physical quantity can be measured in parsecs, light years, astronomical units, or kilometres?
A: **distance** (accept: **length**, **displacement**)
35. To the nearest whole number, how many light years from Earth is the Alpha Centauri star system?
A: **4** light years

Double Jump

36. Deposits of sediment as a river enters another body of water can create what landform, so named for its resemblance to a Greek letter?
A: river **delta**
37. Similar, roughly triangular accumulations of sediment can also form where streams exit canyons or valleys, where they are known by what two-word name?
A: **alluvial fan**

Set of 4

38. A process designed to eliminate traumatic memories called “engrams”, named “auditing”, is a core practice in what new religion?
A: **Scientology**
39. Suspected to be responsible for the disappearance of his wife Shelley, who is the current leader of the Church of Scientology?
A: David **Miscavige**
40. After losing the rights to his literature on Dianetics, who founded Scientology?
A: L. Ron **Hubbard**
41. Scientology’s belief system was famously mocked on what television series, causing actor Isaac Hayes to quit his portrayal of Chef in response?
A: **South Park**

Set of 3

42. In Canada, what is the last federal holiday before Good Friday?
A: **New Year's Day** (prompt on: New Year's, January 1st, clear equivalents)
43. What Farsi word for "new day" gives its name to the Persian New Year?
A: **Nowruz**
44. New Year's Day of what year marks the UNIX epoch, which most computers base their time measurements on?
A: **1970** (prompt on: '70)

Linked Set of 6

45. What is excreted by the lacrimal glands, found in the eyes?
A: **tears**
46. Who told the British people he had nothing to offer them but "blood, toil, tears, and sweat" shortly after becoming prime minister in May 1940?
A: Winston **Churchill**
47. What species of animal brings thousands of tourists to Churchill, Manitoba every fall?
A: **polar bears**
48. What ice cream brand uses a walking polar bear as its logo?
A: **Klondike**
49. Deposits of what element were found in 1896 in the Klondike?
A: **gold** (accept: **Au**)
50. What king was cursed by having everything he touched turn to gold in Greek mythology?
A: King **Midas**

END OF FIRST HALF

THIRD QUARTER

Splits: Movies with Short Titles & Herbivorous Dinosaurs

Movies with Short Titles

51. What Spike Jonze film starring Scarlett Johansson as Samantha depicts the relationship between a man and his artificially intelligent operating system?
A: **Her**
52. A woman and her family are attacked by the Tethered, a group of their doppelgangers, in what horror film directed by Jordan Peele?
A: **Us**
53. The death of Georgie Denbrough in a storm drain is the opening scene in what adaptation of a Stephen King novel featuring Pennywise the Dancing Clown?
A: **It: Chapter One**
54. What country serves as the setting of Pablo Larraín's *No*, which depicts the 1988 national plebiscite on whether Augusto Pinochet was to remain in power?
A: **Chile**

Herbivorous Dinosaurs

55. The “thagomizer”, coined by the comic strip *The Far Side*, has become an informal term for the group of spikes on the tail of what dinosaurs?
A: **Stegosaurus** (accept: **Stegosauria**, **stegosaur**s)
56. *T. horridus* is the type species of what dinosaur, whose name means “three horned face”?
A: **Triceratops**
57. Dinosaurs like Diplodocus and Brachiosaurus belonged to what clade of very large, long-necked dinosaurs?
A: **sauropods** (accept: **Sauropoda**)
58. What dinosaur names a clade characterized by a dome of thick bone on top of their heads possibly used for headbutting?
A: **Pachycephalosaurus**

Set of 3: The Opium Wars

59. What dynasty ruled China during the Opium Wars?
A: **Qing** [“ching”] Dynasty
60. Until the Opium Wars, what was the only Chinese city in which trade with the West was allowed?
A: **Canton** (accept: **Guangzhou**)
61. The British East India Company smuggled opium into China in order to pay for imports of what good, the main good sold by China to the West?
A: **tea**

Jailbreak

62. Under a temporary court injunction, what school is still allowed to enroll international students despite a recent federal government ban?
A: **Harvard** University
63. Who used text from the Luther Bible for his *German Requiem*?
A: Johannes **Brahms**
64. What principle states that each stratum in an undisturbed sedimentary rock formation is younger than the strata below it?
A: principle/law of **superposition**
65. Shin Lim, Kodi Lee, and Richard Goodall are all past winners of what TV competition?
A: **America’s Got Talent** (accept: **AGT**)
66. The House of Wisdom was founded in what city, the capital of the Abbasid caliphate?
A: **Baghdad**
67. What “A”-word from Sanskrit is used in yoga to refer to poses?
A: **asanas**
68. Eden is depicted on the left panel, and Hell on the right panel, of what triptych by Hieronymus Bosch?
A: *The* **Garden of Earthly Delights**
69. What Italian city names a garment supposedly used to wrap Jesus’s body after his death, its namesake shroud?
A: **Turin** (accept: **Torino**)
70. What is the most populous of the five Central Asian countries?
A: **Uzbekistan**
71. On what show are factions popularly known as the Greens and Blacks, referring to their respective House colours, warring for the Iron Throne in the Targaryen Civil War?
A: **House of the Dragon**

72. In common time, how many beats does a whole note last?
A: **four** beats
73. "Yucky Blucky Fruitcake" was the breakout single for what rapper, whose 2024 hits included "Nissan Altima" and "Denial is a River"?
A: **Doechii** ["DOE-chee"]
74. The word "superposition" contains how many vowels?
A: **6**
75. The Saint-Charles River flows into the St. Lawrence River in what city?
A: **Quebec** City

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: Who was the subject of a fantastical novel widely spread and translated in medieval Europe, which depicted him building a wall to enclose Gog and Magog?
77. Part 2: Tyre is connected to the mainland because this leader built a causeway for his troops to capture it, which has since grown due to silt deposits.
78. Part 3: After this leader's premature death, the Diadochi ["dye-uh-DOKE-ee"] waged a series of wars that divided his empire between the Antigonid, Seleucid, and Ptolemaic Dynasties.
79. Part 4: This undefeated conqueror founded many cities that he named after himself, including a major port in Egypt.
A: **Alexander the Great** (accept: **Alexander III** of Macedon) (prompt on: **Alexander**)

Streak

80. On a standard English keyboard in North America, give the names of up to all 8 of the symbols that can be typed by pressing shift and a number from 1 through 8.
- A: **exclamation** mark/point
- A: **at** sign/symbol
- A: **number** sign/symbol (accept: **pound** sign/symbol, **hashtag**, **octothorpe**)
- A: **dollar** sign/symbol
- A: **percentage** sign/symbol
- A: **caret**
- A: **ampersand** (prompt on: **and** sign/symbol)
- A: **asterisk** (accept: **star**)

Set of 5: Debt

84. What word refers to someone who is owed money by a debtor?
A: **creditor**
85. People or companies unable to pay their debts can apply for what legal status, in which a court will manage distribution of their assets?
A: **bankruptcy** (accept: being **bankrupt**)
86. Countries unable to pay their debt can receive bailout loans from what international organization, often on the condition of implementing free-market reforms?
A: **International Monetary Fund** (accept: **IMF**)

87. The large majority of the American federal government's debt is owed to creditors in what country?
A: **United States** of **America** (accept either bolded part) (accept: **USA**) (accept clear equivalents such as **itself**)
88. What country has by far the highest government debt relative to GDP in the world, a problem exacerbated by its rapidly ageing population?
A: **Japan**

12-Part Blitz

89. What is the largest city in Israel?
A: **Tel Aviv**
90. What mathematician names a self-similar so-called triangle that is one of the best-known examples of a fractal?
A: Wacław **Sierpinski** ["share-PEEYN-skee"]
91. Give the French name for the act of courteously addressing an individual by using the second person plural.
A: **vouvoyer** ["voo-vwah-YAY"] (accept: **vouvoie** ["voo-WVAH"], **vouvoiement** ["voo-vwah-MO"])
92. In what country were the Mothers of the Plaza de Mayo formed in response to the National Reorganization Process and the disappearings carried out by its military dictatorship?
A: **Argentina**
93. The numerous cavities in a piece of Mentos candy serve to nucleate what molecule when put into a bottle of pop?
A: **carbon dioxide** (accept: **CO2**)
94. *Flying Microttonal Banana* and *Nonagon Infinity* are two of the 26 studio albums by what Australian psychedelic rock band known for exploring a wide range of genres?
A: **King Gizzard and the Lizard Wizard** (prompt on: **King Gizzard**)
95. Modern continental philosophy is largely descended from what early modern German philosopher who wrote *The Critique of Pure Reason*?
A: Immanuel **Kant**
96. What ruler of Latveria blames Mister Fantastic for causing the accident that disfigured his face, leading him to wear a metal mask?
A: Doctor **Doom** (accept: **Victor** von Doom)
97. What Western Canadian city shares its name with a city across the Columbia River from Portland, Oregon?
A: **Vancouver**
98. An Afrikaans word meaning to haul or pull something gave us what English noun for a long journey?
A: **trek**
99. Wavelengths of between 780 nanometres and 1 millimetre define what part of the electromagnetic spectrum?
A: **infrared** (accept: **IR**)
100. The Tarim Basin lies just north of what mountain range, the northern edge of the Tibetan Plateau?
A: **Kunlun** Mountains

END OF GAME