



2023-24 Post-Secondary Qualifier (T3) – Pack 10

Head Editor: *Ian Greig*

Writers/Editors: *Ian Chow, Hannah Cookson, Odin Fisher-Skau, Max Gedajlovic, Ian Greig, Paul Kasiński, Yadu Kukenthiran, Jenny Mao, Jack van Nostrand, Ryan Sharpe, Joe Su, Isaac Thiessen, Gaian Valdegamo, James Wang, Zhongtian Wang, Adrian Wong, Joyce Xi*

PACK 10

5-Part Blitz

1. "Wobblies" is a nickname for members of what labour union, founded in Chicago in 1905?
A: **International Workers of the World** (accept: **IWW**)
2. What Arabic word refers to the sin of worshipping another god besides Allah, or of associating anyone with Allah and his powers?
A: **shirk**
3. In a namesake HBO gangster series, the patriarch of what title family was played by James Gandolfini?
A: **Soprano** family (accept: the **Sopranos**)
4. A 1938 play by Patrick Hamilton is the source of the name of what form of psychological manipulation?
A: **gaslighting**
5. What 600-kilometre-long system of locks and canals allows ships to travel against the current from the Atlantic Ocean to the Great Lakes?
A: **St. Lawrence Seaway**

Double Jump

6. What American geographical feature is the site of the hottest air temperature recorded on Earth?
A: **Death Valley** (prompt on: **Mojave** Desert)
7. In 1983, what Antarctic research station saw the coldest directly-recorded air temperature on Earth?
A: **Vostok** Station

Double Jump

8. An atom of oxygen has how many valence electrons, two away from forming a stable valence shell?
A: **6**
9. Of oxygen's 6 valence electrons, how many occupy the 2p orbital?
A: **4**

Set of 4

10. What position, whose holders were said to rule by the Mandate of Heaven, was first held by Qin Shi Huang?
A: **emperor of China** (accept: **Chinese emperor**) (prompt on: **emperor**)
11. Holding effective power for decades during the Tang Dynasty, who was the only-ever female emperor of China?
A: **Wu** Zetian (accept: **Wu** Zhao)
12. From the Han Dynasty onwards, men of what kind, who worked as palace servants, often became highly-influential advisors to the emperor because they were not a threat to start a dynasty of their own?
A: **eunuchs** (accept: **castrated** men/people)
13. What title was used for the mother or widow of a Chinese Emperor?
A: Empress **Dowager** (accept: **Dowager** Empress)

Jackpot

14. Part 1: What musician earned their first record deal after writing a song that contains the line "You're my manna from heaven, we all gotta get fed", along with other religious imagery?
15. Part 2: This artist heavily sampled the 1932 song "My Woman" on a song with a cowboy-themed music video. However, this artist mistakenly thought the sample came from *Star Wars* at first.
16. Part 3: This singer sings "I would've stayed at home, 'cause I was doin' better alone", to begin the chorus of a song she released in 2020.
17. Part 4: This British singer's most popular songs include "Dance the Night" from the Barbie movie, "Don't Start Now", and "Levitating".
A: Dua **Lipa**

Set of 3: Hair in Fiction

18. Who has a piece of her hair cut off by the Baron in *The Rape of the Lock*?
A: **Belinda**
19. The Gorgons in Greek mythology, including Medusa, had what in place of hair?
A: **snakes**
20. Conscription for what war is a primary plot point of the musical *Hair*?
A: **Vietnam** War

5-Part Blitz

21. A magnitude 7.5 earthquake struck what country on New Year's Day 2024?
A: **Japan**
22. What German author wrote about Hans Castorp's stay at a sanatorium in the novel *The Magic Mountain*?
A: Thomas **Mann**
23. Pictograms that warn of corrosion, flammability, and other dangers are used in what Canadian communication standard, commonly referred to by a five-letter acronym?
A: **WHMIS** ["WHIM-iss"] (accept: **Workplace Hazardous Materials Information System**)
24. What name is given to the wooden sailing ships developed in ancient China and used for Chinese ocean travel into the 19th century?
A: **junks**
25. Besides Gordon Ramsay, name any of the other people who have been official judges on *Masterchef USA*.
A: Joe **Bastianich** OR Graham **Elliott** OR Aaron **Sanchez** OR Christina **Tosi**

END OF FIRST QUARTER

SECOND QUARTER

Splits: Currencies & Video Game Characters

Currencies

26. What country uses the ringgit as its currency?
A: **Malaysia**
27. What was the currency of the Netherlands before they switched to the euro?
A: **guilder** (accept: **gulden**)
28. Serbia, Tunisia, Jordan, and Iraq are among the countries with a currency known by what name?
A: **dinar**

29. What English word do the currencies of Iceland, Norway, Denmark, and Sweden all literally translate to?
A: **crowns**

Video Game Characters

30. What bounty hunter, originally covered head-to-toe in an orange Power Suit, was revealed to be female in the first *Metroid* game?
A: **Samus Aran** (accept either bolded part)
31. Who is the central character of the *Witcher* franchise?
A: **Geralt** of Rivia
32. What classic video game protagonist tries to prevent the Chaos Emeralds from falling into the hands of Dr. Eggman?
A: **Sonic** the Hedgehog
33. What former Georgia history professor and escaped convict serves as Clementine's protector in Telltale's first *Walking Dead* game?
A: **Lee Everett** (accept either bolded part)

Double Jump

34. Equal to one kilogram metre squared per second squared, what is the SI unit for energy?
A: **joule**
35. Rounded to the nearest whole number, how many joules are in a thermochemical calorie, equal in magnitude to the amount of energy required to increase the temperature of 1 gram of liquid water by 1 degree Celsius?
A: **4**

Double Jump

36. Who composed the scores for *Saving Private Ryan*, *Jaws*, and *Star Wars*?
A: John **Williams**
37. Through the 1980s and early 1990s, Williams was the conductor for what orchestra, which traditionally plays pieces such as the *1812 Overture* and *The Stars and Stripes Forever* to celebrate the 4th of July?
A: **Boston Pops** Orchestra (prompt on: **Boston** orchestra)

Set of 4: Games

38. There is a two-thirds chance of winning a car if the player switches doors in what probability puzzle named after the original host of *Let's Make a Deal*?
A: **Monty Hall** Problem/Paradox
39. What two-word term describes a situation in a three-player game where the first player to make a move loses?
A: **Mexican standoff**
40. Two people taking turns removing any number of objects from distinct piles is the procedure for what game with a three-letter name?
A: **nim**
41. Staying silent or testifying against the other player are the two options that each player has in what game theory situation?
A: **prisoner's dilemma**

Set of 4: Translating Literature

42. What novel's opening sentence, referring to the death of the narrator's mother, is difficult to translate due to the connotation of the French "maman"?
A: The **Stranger** (accept: *L'Étranger*, *The Outsider*)
43. Elizabethan poet George Chapman rose to fame for translating the works of what Ancient Greek author, including *the Iliad*?
A: **Homer**
44. Although it is "Marvolo" in English, what is Voldemort's middle name in French?
A: **Elvis**
45. Who wrote the Holocaust memoir whose title is directly translated as *If This Is a Man*, but whose American title is *Survival in Auschwitz*?
A: Primo **Levi**

5-Part Blitz

46. Found roughly 2,800 kilometres west of Cape Town and 4,000 kilometres northeast of the Falkland Islands, what British possession is the most remote permanently inhabited island in the world?
A: **Tristan da Cunha**
47. Visible even during a solar eclipse, what is the outermost layer of the Sun's atmosphere?
A: **corona**
48. Commonly associated with punk culture, what hairstyle involves a tall, spiked strip of hair down the middle of an otherwise clean shaven head?
A: **mohawk**
49. What game was solved by a team of Canadian computer scientists in 2007, showing that every game would end in a draw if both sides played perfectly?
A: **checkers** (accept: **draughts**)
50. "Jeanie with the Light Brown Hair", "Camptown Races", and "Oh, Susanna" are songs by what American composer?
A: Stephen **Foster**

END OF FIRST HALF

THIRD QUARTER

Splits: Genetics & Formula One

Genetics

51. What type of nitrogenous bases consist of two rings fused together, contrasted with the single-ring pyrimidines?
A: **purines** (accept: **purine** bases)
52. What diagram shows the possible genetic outcomes when two organisms are crossed?
A: **Punnett** square (accept: **Punnett** diagram)
53. Whose 1930 book *The Genetical Theory of Natural Selection* played a key role in the modern synthesis between Mendelian and Darwinian ideas?
A: Ronald **Fisher** (accept: **R.A. Fisher**)
54. What word means a person who does not express a particular trait themselves but can potentially pass it on to their offspring?
A: **carrier**

Formula One

55. What vehicle technology allows drivers to open the rear wing of their car after passing certain points on the track less than one second after another driver?
A: **Drag Reduction System** (accept: **DRS**)
56. Teams must use at least two different compounds, usually described by their hardness, for which component of the car during each race?
A: **tires**
57. What strategy involves pitting early relative to the cars ahead of oneself in order to overtake them later in the race?
A: **undercutting** (accept word forms)
58. What is the subtitle of Netflix's Formula One documentary?
A: **"Drive to Survive"**

Set of 3: 20th-Century Photography

59. *Behind the Gare Saint-Lazare* was taken by which French photographer who devised the concept of the "decisive moment"?
A: Henri **Cartier-Bresson**
60. In a photo taken by Joe Rosenthal during World War II, what object is being raised by six soldiers on Iwo Jima?
A: the **American flag** (accept clear equivalents) (prompt on: **flag**)
61. Who photographed John Lennon embracing his wife Yoko Ono hours before Lennon's assassination?
A: Annie **Leibovitz**

Jailbreak

62. Who gives his name to the bridge currently being built between Windsor and Detroit?
A: Gordie **Howe**
63. What city's Genbaku Dome is the only structure still standing from the first atomic bomb dropped on Japan?
A: **Hiroshima**
64. What actor, also known for his voice acting work in *How the Grinch Stole Christmas*, starred as Frankenstein's monster in the classic Universal monster movies?
A: Boris **Karloff** (accept: William Henry **Pratt**)
65. Who advocated for absolute monarchy in his book *Leviathan*?
A: Thomas **Hobbes**
66. What country colonized Madeira and the Azores, and sent Vasco da Gama to discover the sea route to India?
A: **Portugal**
67. What is the scientific name of the lower jawbone?
A: **mandible**
68. What is the capital of Honduras?
A: **Tegucigalpa**
69. What HBO show, named for a line from Henry the Fifth's Saint Crispin's Day speech, follows Easy Company as they fight in the Western Front of World War 2?
A: **Band of Brothers**
70. What country's Bolivar State is home to Angel Falls, the world's tallest uninterrupted waterfall?
A: **Venezuela**
71. Algorithms that always take the immediate optimal choice without considering how future choices will be affected are known by what name?
A: **greedy** algorithms

72. Name either character that entered the public domain in 2024 following the expiration of the copyright on the 1928 film *Steamboat Willie*.
A: **Mickey** Mouse OR **Minnie** Mouse
73. The name Silly Putty is trademarked by what company, best known for selling art supplies like coloured pencils and crayons?
A: **Crayola** LLC
74. What is the only constellation to represent an inanimate object in the Western zodiac?
A: **Libra**
75. Who wrote *Daisy Miller* and *The Turn of the Screw*?
A: Henry **James**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: Wine and what other product were the primary components of mulsum?
77. Part 2: Due to the risk of contamination by *C. botulinum*, it is recommended that parents avoid giving this product to their children until the age of one.
78. Part 3: Premium varieties of this food each come from only a single species of plant, giving them a distinctive flavour. This food has been used to treat burns and as an easily-tolerable cough remedy.
79. Part 4: This food is made by *Apis mellifera* and its relatives, and is most commonly used as a natural sweetener.
A: **honey**

Streak

80. Only including those originally established in their founder's will, name up to all of the fields in which the Nobel Prize is awarded.
A: **Chemistry**
A: **Literature**
A: **Peace**
A: **Physics**
A: **Physiology** or **Medicine** (accept either bolded part)

Streak

83. Since the fall of the Soviet Union, name up to all of the people who have served as president of Russia.
A: Boris **Yeltsin**
A: Vladimir **Putin**
A: Dimitry **Medvedev**

Set of 5: Change a Letter

Given two definitions, provide both words being defined. The second word will be the same as the first with exactly one letter changed. Letters will not be added or removed.

84. A compartmentalized workspace, and a layer of skin on fingernails.
A: **cubicle** AND **cuticle**
85. A kind of fortification referenced in "The Star-Spangled Banner", and a word that describes something widespread and unrestricted.
A: **rampart** AND **rampant**
86. A mixture of solid and liquid precipitation, and a group of navy vessels.
A: **sleet** AND **fleet**
87. An aeronautical component which generates additional lift, and a custard-based dessert.
A: **flap** AND **flan**
88. A word that describes an overt, egregious act, and a word that describes objects that give off an odour.
A: **flagrant** AND **fragrant**

12-Part Blitz

89. What two-word name was shared by a 1917 document promising British support for establishing a Jewish homeland and a 1926 document that proclaimed the equal status of Britain and its dominions?
A: **Balfour Declaration**
90. *Day For Night* and *The 400 Blows* are films by what French New Wave director?
A: Francois **Truffaut**
91. *Science* and *Nature* are both what kind of publication?
A: science/scientific/academic/research **journals** (prompt on: periodicals)
92. What singer's 2023 album *The Land is Inhospitable and So Are We* features the single "My Love Mine All Mine"?
A: **Mitski** (accept: **Mitsuki** Miyawaki, Mitsuki **Laycock**)
93. What mathematician was the first to prove that the Bridges of Koenigsberg problem had no solution?
A: Leonhard **Euler**
94. Ferries and tunnels were introduced in which expansion to *Ticket to Ride*?
A: *Ticket to Ride: **Europe***
95. What rhyming term can refer to a minor car accident?
A: **fender bender**
96. The theoretical yield of a chemical reaction can be calculated by knowing the initial amount of what reactant, which is entirely consumed during a reaction?
A: **limiting** reactant/reagent/agent
97. The legal case *Jarndyce v. Jarndyce* is central to what Charles Dickens novel?
A: **Bleak House**
98. What word refers to a missed serve in tennis?
A: **fault**
99. Partially named for one of its founders, what algorithm does Google use to sort websites to be displayed after a search?
A: **PageRank**
100. What three-word name was used by historian Eric Hobsbawm to refer to the 125-year period between 1789 and 1914?
A: **long 19th century**

END OF GAME