



2024-25 Post-Secondary Championship (T3) – Pack 9

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PACK 9

5-Part Blitz

1. In art, what two-word term refers to the empty area that surrounds the subject of a drawing?
A: **negative space**
2. What word follows “Himachal”, “Madhya”, “Andhra”, and “Uttar” in the names of Indian states?
A: **Pradesh**
3. What two-word term refers to the situation in which introducing new and stronger units, abilities, or weapons in a game will gradually make older ones obsolete?
A: **power creep**
4. What word refers to bacteria with a spherical cell structure?
A: **coccus** (accept: **cocci**, **coccal**)
5. What city was the capital of two namesake Mesopotamian empires and later one of the capitals of the Achaemenid [“uk-AY-men-id”] Empire?
A: **Babylon**

Double Jump

6. An element’s atomic number is equal to the number of what particle in its nucleus?
A: **protons**
7. Disregarding colour, how many quarks of each flavour make up a proton? Give answers in a form such as “12 charm quarks, 3 up quarks and 5 bottom quarks”.
A: **two up** quarks AND **one down** quark (accept clear equivalents)

Double Jump

8. Who was transformed into a flower at the side of a pond after falling in love with his own reflection, in Greek mythology?
A: **Narcissus**
9. What flower is named for a prince of Sparta and lover of Apollo whose spilled blood was turned into a flower after he was killed by a discus?
A: **hyacinth**

4-Part Mystery

10. A rash and a red and bumpy tongue are characteristic symptoms of what disease caused by Streptococcus pyogenes?
A: **scarlet fever**
11. Grey Poupon sells a variety of what condiment, named for a city in Burgundy, France?
A: Dijon **mustard**
12. What objects are eaten by the narrator because they were “so sweet” and “so cold” in William Carlos Williams’s poem “This Is Just to Say”?
A: **plums**
13. What animal is featured on NBC’s logo and also names their streaming service?
A: **peacock**

Jackpot

14. Part 1: What country makes up most of the territory known as Sahul?
15. Part 2: This country's largest lakes are a group of shallow salt lakes in a large endorheic ["en-dore-AY-ick"] basin in its south, which are usually dry but occasionally fill up when rainfall is high.
16. Part 3: Rivers west of the Great Dividing Range drain into this country's namesake Great Bight off its southern coast.
17. Part 4: The Great Barrier Reef lies off this country's northeastern coast, and its largest island, Tasmania, lies to its south.
A: **Australia**

Set of 3: French Novels

18. *Les Rougon-Macquart*, including novels like *Germinal*, was a series by what author, who defended Alfred Dreyfus in an open letter titled "J'Accuse"?
A: Émile **Zola**
19. In what novel does Phileas Fogg accept a 20,000-pound bet to circumnavigate the globe?
A: **Around the World in Eighty Days**
20. What character marries the health officer Charles and engages in numerous affairs in a Gustave Flaubert novel?
A: Madame **Bovary** (accept: **Emma** Bovary, Emma **Rouault**)

5-Part Blitz

21. What common name can also be used as a slang term for a toilet or for the client of a prostitute?
A: **John**
22. What student of Beethoven and teacher of Liszt is best known nowadays for his massive output of études and other pedagogical pieces?
A: Carl **Czerny** ["CHER-nee"]
23. Most languages in the islands of Southeast Asia and the Pacific belong to what family?
A: **Austronesian** languages/family
24. What kind of event is referred to as "deep play" in the title of an essay by Clifford Geertz?
A: Balinese **cockfight**
25. The 1498 book *Apocalypse* contains fifteen scenes from the Book of Revelation in the form of woodcuts by what German artist?
A: Albrecht **Durer**

END OF FIRST QUARTER

SECOND QUARTER

Splits: Political Dynasties & At the Gym

Political Dynasties

26. Give the surnames of both the current president and vice-president of the Philippines, each of whom had a father who formerly served as president.
A: **Marcos** AND **Duterte**

27. Who was approved by a 52-48 vote in February to be the new United States Secretary of Health and Human Services?
A: **Robert F. Kennedy, Jr.** (accept: **RFK Jr.**) (prompt on: Robert F. Kennedy, RFK)
28. What founder of the Colonial Advocate and prominent Reformer was the grandfather of Canada's 10th prime minister?
A: William Lyon **Mackenzie**
29. What is the surname of the Lok Sabha opposition leader Rahul, son of former prime minister Rajiv, who in turn succeeded his mother Indira after her assassination?
A: **Gandhi**

At the Gym

30. What muscles are worked by shoulder shrugs?
A: **trapezius** muscles (accept: **traps**)
31. What kind of exercises use fast-twitch muscles, which gain energy from glycolysis rather than from oxygen?
A: **anaerobic** exercises
32. Notable for protecting joints by avoiding impact, on what kind of exercise machine does the user stand on two pads and move them in cycles with their feet?
A: **elliptical** machine
33. What is the largest chain of gyms in Canada?
A: **Goodlife** Fitness

Double Jump

34. What is the last digit of 37 factorial?
A: **0**
35. You will have five seconds. What is the last digit of 3 to the power of 500?
A: **1**

Double Jump

36. Wolfgang Amadeus Mozart's Opus 20 string quartets were dedicated to what composer, the father of the string quartet?
A: Franz Joseph **Haydn** (accept: Joseph **Haydn**)
37. The last of Mozart's Haydn Quartets has a nickname referring to what musical quality, because of its opening notes?
A: **dissonance** (accept: **dissonant**)

Set of 3: Days in May

38. What battle is commemorated in the US and Mexico on Cinco de Mayo?
A: Battle of **Puebla**
39. *Star Wars* fans typically celebrate what day due to a pun on a catchphrase from the franchise?
A: May **4th** (accept clear equivalents)
40. In Canada, what specific day in May does Mother's Day fall on?
A: the **second Sunday** of May (accept clear equivalents)

Set of 5: Mice in Children's Literature

41. What fantasy novel by Kate DiCamillo tells the story of a heroic mouse who goes on a quest to rescue a human princess from rats?
A: The **Tale of Despereaux**
42. A canary named Margalo and a cat named Snowbell are secondary characters in what E.B. White novel that was adapted into a film starring Michael J. Fox?
A: **Stuart Little**
43. What rapier-wielding mouse loses his tail while fighting under Prince Caspian, before having it restored by Aslan, in *The Chronicles of Narnia*?
A: **Reepicheep**
44. Heroic mice such as Luke, Mattimeo, and Martin the Warrior are characters in what fantasy series by Brian Jacques?
A: **Redwall** series/books
45. What object is used in the title of a picture book about a slippery slope that occurs after it is given to a mouse?
A: **cookie**

5-Part Blitz

46. When the Mongol Empire was divided, its northwestern territories formed what khanate [“KON-ut”]?
A: Khanate of the **Golden Horde**
47. Who released the singles “Lies Lies Lies” and “Love Somebody” ahead of his upcoming album *I’m the Problem*, the follow-up to his massively successful 2023 album *One Thing at a Time*?
A: Morgan **Wallen**
48. What two-word phrase traditionally referred to a course of subjects spanning the quadrivium and the trivium, including arithmetic, grammar, and rhetoric?
A: **liberal arts** (reject: liberal art)
49. When it begins a word in French, what letter can be either aspirated or mute, which affects whether it allows liaisons from the previous word?
A: **H**
50. Los Angeles’s Brentwood and Pacific Palisades neighbourhoods house the two campuses of what art museum?
A: J. Paul **Getty** Museum

END OF FIRST HALF

THIRD QUARTER

Splits: Sports Comebacks & The Physics of Temperature

Sports Comebacks

51. Before sweeping the Cardinals in the World Series, what team became the first in MLB history to come back from a three-games-to-none deficit, defeating the Yankees in the 2004 ALCS en route to breaking the Curse of the Bambino?
A: **Boston Red Sox** (accept either bolded part)
52. Scoring 25 consecutive points during the third and fourth quarters, what team came back from a score of 28-3 to win during overtime of Super Bowl 51?
A: **New England Patriots** (accept either bolded part)

53. During what Olympics did Brianne Jenner and Marie-Philip Poulin score two goals within four minutes to tie the women's gold medal hockey game against the United States?
A: **2014** Winter Olympics/Games (accept: **Sochi** Olympics/Games)
54. How many goals did the winning team score in a game nicknamed "La Remontada", a second-leg victory for Barcelona over PSG to advance in the Champions League?
A: **six**

The Physics of Temperature

55. What is the Fahrenheit equivalent of the Kelvin scale?
A: **Rankine** scale
56. Charles's law expresses a direct relationship between temperature and what other quantity?
A: **volume**
57. What scientist names a law that relates the most common wavelength of light emitted by a blackbody to its temperature?
A: Wilhelm **Wien**
58. What law states that the entropy of a system approaches zero as the temperature approaches absolute zero?
A: **third law of thermodynamics** (prompt on: **third** law)

Set of 3: Production

59. In economics, what are the three primary factors of production?
A: **land** AND **labour** AND **capital**
60. What is the most common process by which primary production is carried out by organisms on Earth?
A: **photosynthesis**
61. "The audience comes last" is a motto of what producer, famous for working with artists like the Red Hot Chili Peppers, Johnny Cash, and System of a Down?
A: Rick **Rubin**

Jailbreak

62. Along with Malcom McLaren, what British designer has been credited with developing and popularizing punk fashion?
A: Vivienne **Westwood**
63. The name of what bird related to the turkey is also a verb meaning to complain?
A: **grouse**
64. As the ATP governs men's tennis, what organization governs women's tennis?
A: **WTA** (accept: **Women's Tennis Association**)
65. In what 2024 psychological horror game must players navigate the aftermath of a crash that left the spaceship Tulpar stranded and its captain severely maimed?
A: **Mouthwashing**
66. The flow of ocean currents is mostly determined by what two properties of ocean water?
A: **temperature** AND **salinity** (accept: **saltiness**)
67. Who wrote the poetry collection *Songs of a Sourdough*, which featured "The Shooting of Dan McGrew" and "The Cremation of Sam McGee"?
A: Robert **Service**
68. A Steve Miller Band song whose chorus notes "I wanna reach out and grab ya" and a 2025 Lady Gaga song whose chorus is mainly gibberish share what magical title?
A: **"Abracadabra"**

69. Who hosts the Service95 Book Club, on which she interviews acclaimed authors?
A: Dua **Lipa**
70. What is the official four-word name of the largest city in Vietnam, often called Saigon?
A: **Ho Chi Minh City**
71. Many Enlightenment thinkers were influenced by the skeptical writings of what Pyrrhonist philosopher from Roman Greece?
A: **Sextus Empiricus** (prompt on: **Sextus**)
72. In early 2024, John Barnett and Joshua Dean both died suddenly after raising safety concerns about what company's products?
A: **Boeing**
73. In programming, what five-letter word refers to the extent within which a variable can be accessed, and can be classified as global or local?
A: **scope**
74. Who is known as the Liberator of America for his leadership in the wars of independence in many of Spain's colonies?
A: Simon **Bolivar**
75. What is the second-most-populous country in South America?
A: **Colombia**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: In 2002, an HIV-positive five-year-old named Kami made her first appearance in the South African version of what TV show?
77. Part 2: A musical inspired by this TV show includes the songs "My Girlfriend, who Lives in Canada" and "The Internet is for Porn".
78. Part 3: Human characters on this show have included the fix-it shop owner Luis, the music teacher Bob, and the store owner Mr. Hooper, who was memorialized in a special episode when the actor who played him died.
79. Part 4: Songs like "Rubber Duckie" and "C is for Cookie" originated on this TV show whose cast of Muppets includes Elmo and Big Bird.
A: **Sesame Street**

Streak

80. Name up to every Canadian province in which the NDP has been the governing party at least once.

A: **British Columbia** (accept: **BC**)

A: **Manitoba**

A: **Alberta**

A: **Ontario**

A: **Saskatchewan**

A: **Nova Scotia**

Set of 3: Double Colours

83. Known for their toxic blooms during summertime, what organisms are also referred to as cyanobacteria?
A: **blue-green algae**
84. Less than 1% of women, and about 8% of men, have what genetic disorder affecting eyesight?
A: **red-green colourblindness** (prompt on: colourblindness)
85. Various locations around Pittsburgh appear in the music video for what song, the first number one single by Wiz Khalifa?
A: **"Black and Yellow"**

Set of 3

86. What American director made the films *Apocalypse Now* and *The Godfather*?
A: **Francis Ford Coppola** (prompt on: Coppola) (reject: Ford Coppola)
87. What Wagner piece is played as helicopters descend upon a Vietnamese village in *Apocalypse Now*?
A: **"Ride of the Valkyries"** (prompt on: "Die Walkure", "The Valkyrie")
88. What personal project of Coppola's was released in 2024 and stars Adam Driver as the architect Cesar Catalina?
A: **Megalopolis**

12-Part Blitz

89. Wendy the Frog and Cam the Cat were among the first eight to be released of what line of plush toys?
A: **Squishmallows**
90. Later deified into a god of healing, who is credited with the design of Djoser's step pyramid, the oldest pyramid of ancient Egypt?
A: **Imhotep**
91. What is the derivative of y equals sine of x?
A: y equals **cosine** of x (accept: y equals **cos** x)
92. At the start of a hand of Omaha, each player is dealt how many cards?
A: **4**
93. The gas giants are mostly composed of what two elements?
A: **hydrogen** (accept: **H**) AND **helium** (accept: **He**)
94. Mekelle, Dire Dawa, and Gondar are cities in what country?
A: **Ethiopia**
95. The English sense of what loanword refers to a broader feeling of listlessness or dissatisfaction than its original French meaning of "boredom"?
A: **ennui**
96. From 1830 to 1848, what royal house ruled France under King Louis-Philippe?
A: House of **Orléans**
97. What does the title character often stare at across the bay during the nighttime, emanating from the end of Daisy's dock, in *The Great Gatsby*?
A: **green light** (prompt on: light)
98. What word refers to the cosmic balance that followers try to maintain in Hinduism, Buddhism, Sikhism, and Jainism?
A: **dharma**
99. Starting with the word "alternation" and removing all of the letters in odd-numbered positions produces what instruction used in sheet music to indicate that a part should be played slowly?
A: **lento**

100. Ignoring man-made islands, what is the only country in the Middle East to border exactly one other country?

A: **Qatar**

END OF GAME