



2024-25 Post-Secondary Championship (T3) – Pack 6

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PACK 6

5-Part Blitz

1. The northern border of Kentucky is defined by what river?
A: **Ohio** River
2. What actor was the subject of a 2000s internet meme centered on exaggerated facts about his strength and toughness?
A: Chuck **Norris**
3. Name any of the players featured on the covers of *NBA 2K25*.
A: Jayson **Tatum** OR A'ja **Wilson** OR Vince **Carter**
4. The Greek roots for "theft" and "power" combine to make what English word?
A: **kleptocracy** (accept: **kleptocrats**, **kleptocratic**)
5. The life of Yozo Oba is recounted in what novel by Osamu Dazai?
A: **No Longer Human**

Double Jump

6. Who steered past a boulder-strewn area to achieve a landing in the Sea of Tranquility, whereupon he announced "The Eagle has landed"?
A: Neil **Armstrong**
7. Armstrong's first spaceflight was on what mission, which achieved the first-ever outer-space docking but then began to spin out of control until Armstrong managed to stop the roll and save the crew?
A: **Gemini 8**

Double Jump

8. The leading cause of preventable disability in the world is a deficiency in what element, the heaviest element commonly necessary for life, which is often added to salt?
A: **fluorine** (accept: **F**)
9. Mandatory in Canada since 1998, what compound is added to cereal grains and wheat flour to help prevent neural tube defects in developing embryos?
A: **folate** (accept: **folic acid**, **folacin**, Vitamin **B9**)

Set of 4

10. Originating from the prologue to *Romeo and Juliet*, what term describes lovers who are not able to be together, usually for a tragic reason?
A: **star-crossed** lovers
11. Astrolabe was the son of what two star-crossed lovers, a theologian and his student in medieval France?
A: **Héloïse** AND Peter **Abelard**
12. Which member of King Arthur's Round Table had a tragic affair with Queen Guinevere that eventually led to Arthur's death?
A: Sir **Lancelot**
13. What animal is found in the name of a Chinese legend about two tragic lovers, who are reincarnated into it after their deaths?
A: **butterfly**

Jackpot

14. Part 1: What value of x maximizes the value of the x th root of x ?
15. Part 2: This number is the sum of the infinite series 1 over 0 factorial, plus 1 over 1 factorial, plus 1 over 2 factorial, and so on.
16. Part 3: If someone invested one dollar with a return rate of 100% compounded continuously, they would have exactly this many dollars after one year.
17. Part 4: This number raised to the power of i times π is equal to negative 1 . This number is the base of the only exponential function that is its own derivative.
A: **e** (accept: **Euler's** number)

Set of 3: Labrador

18. What is the only province that shares a land border with Labrador?
A: **Quebec**
19. What landmark gives its name to the largest power station in Labrador, which was the subject of a December 2024 energy-sharing agreement with Quebec?
A: **Churchill Falls**
20. Labrador is separated from Newfoundland by what strait?
A: Strait of **Belle Isle**

5-Part Blitz

21. Along with Massachusetts and Maine, what other four states make up New England?
A: **Connecticut** AND **Rhode Island** AND **Vermont** AND **New Hampshire**
22. Dividing the amount of solute by the mass of the solvent gives what quantity?
A: **molality** (reject: **molarity**)
23. Prevalent in France in the second half of the 19th century, what art movement depicted everyday people and scenes in a straightforward manner?
A: **Realism** (accept: **Realist** movement/art)
24. What novel follows a man who murders an old lady in her flat and becomes wracked with guilt over his actions?
A: **Crime and Punishment**
25. In the early modern period, what country was known as the "Hermit Kingdom" because it was isolated from the outer world until being conquered by Japan in 1905?
A: **Korea** (accept: **Joseon** ["CHO-sun"])

END OF FIRST QUARTER

SECOND QUARTER

Splits: Sports Tragedies & Elections

Sports Tragedies

26. In 1955, Pierre Levegh and 83 spectators died when Levegh's car flew into the crowd and broke apart during what annual race?
A: 24 Hours of **Le Mans**

27. What soccer team's fans were responsible for the Heysel Stadium disaster that killed 39 Juventus fans, and were also the primary victims of the Hillsborough disaster?
A: **Liverpool** F.C.
28. What venue twice partially collapsed, killing thousands each time, in the first three centuries AD, when it was the largest chariot-racing stadium in Rome?
A: **Circus Maximus**
29. In what city did Black September take 11 Israeli hostages, all of whom they later killed, during the 1972 Olympics?
A: **Munich**

Elections

30. What noun starting with "P" refers to the branch of political science that studies elections?
A: **psephology** ["suh-FALL-uh-jee"]
31. What alliterative term is used by news organizations like CNN and the Associated Press to refer to their team of experts tasked with making projections of outcomes on election nights?
A: **decision desk**
32. How many ridings are being contested in the current Canadian federal election, an increase of 5 from the previous one?
A: **343**
33. What kind of service do companies like Ekos, Nanos, Léger, and Gallup provide?
A: opinion/election **polling**

Double Jump

34. If it is impossible for the conclusion of an argument to be false while its premises are true, then the argument has what quality?
A: **validity**
35. An argument will be invalid if it contains what kind of logical fallacy, such as affirming the consequent?
A: **formal** logical fallacy

Double Jump

36. What number is used in C, Java, and Python, but not in MatLab, as the starting index of an array or list?
A: **0**
37. In C, strings are stored as character arrays with an additional element of what character at the end? This character is represented using the escape sequence backslash zero.
A: **NULL** character/terminator

Set of 4

38. A venue known as "the big top" would host what kind of entertainment production?
A: **circus**
39. In a traditional circus, what name is given to the event's host who introduces each act?
A: **ringmaster**
40. Varekai, Kooza, and Ovo are all productions of what circus company founded in Montreal?
A: **Cirque du Soleil**
41. What family of five brothers founded a circus company that later merged in 1919 with Barnum and Bailey's circus?
A: **Ringling** Brothers/Family (accept: the **Ringlings**)

Set of 4: Mars

42. What American composer drew heavy influence from Holst's "Mars" to compose the main theme to the *Star Wars* films?
A: John **Williams**
43. The first pair of American Mars landers shared what name?
A: **Viking**
44. What are the two main fillings of a Mars bar?
A: **caramel** AND **nougat**
45. What twins did Rhea Silvia father with Mars?
A: **Romulus** AND **Remus**

Linked Set of 5

46. Onomatopoeias such as "bam", "pow", and "splat" were commonly shown on what 1960s TV series starring Adam West as a DC superhero?
A: **Batman**
47. What 2024 HBO series stars Colin Farrell as the titular Batman villain?
A: *The* **Penguin**
48. In reference to a short yellow crest on the head, what kind of pasta names a species of penguin?
A: **macaroni**
49. What song makes fun of an American for the way he wore his hat by using the 18th-century slang word "macaroni"?
A: **"Yankee Doodle"**
50. What website celebrates holidays and historical birthdays with animations called "doodles"?
A: **Google** (accept: **google.ca**, **google.com**)

END OF FIRST HALF

THIRD QUARTER

Splits: Historic Ships & Performing Arts

Historic Ships

51. What carrack was Christopher Columbus's largest ship on his first voyage, sailing alongside the *Niña* and the *Pinta*?
A: **Santa Maria**
52. What oldest naval vessel still in commission was the flagship of Horatio Nelson at the Battle of Trafalgar?
A: *HMS* **Victory**
53. What ship sank in the Weddell Sea in 1915 during the Imperial Trans-Antarctic Expedition led by Ernest Shackleton?
A: **Endurance**
54. What ship sank after travelling just over a thousand metres on her maiden voyage in 1628, before even leaving Stockholm harbour?
A: **Vasa**

Performing Arts

55. What city's Lincoln Center contains the Juilliard School and the Metropolitan Opera House?
A: **New York** City (accept: **NYC**)
56. What city is home to Canada's oldest ballet company?
A: **Winnipeg**
57. The Canadian Opera Company holds the trademark to what term that refers to text displayed above the stage?
A: **surtitle**
58. What company organises and broadcasts the annual summer Proms concerts, held at the Royal Albert Hall?
A: **BBC** (accept: **British Broadcasting Corporation**)

Set of 3: Quantum Mechanics

59. Who discovered the fact that the more precisely a particle's location is known, the less precisely its velocity can be known?
A: Werner **Heisenberg**
60. The probability of a particle being in a given location at a given time can be determined with what kind of mathematical model, which "collapses" into one certain position when a particle is observed?
A: **wave functions**
61. Quantum mechanics is so far unable to explain what force, which is instead explained by general relativity?
A: force of **gravity** (accept: **gravitation**)

Jailbreak

62. What son of Odin avenges him by killing Fenrir and goes on to survive Ragnarok?
A: **Vithar** (accept: **Vidar**)
63. What city is currently the capital of China's Jiangsu province, and was the capital of the Republic of China from 1927 to 1949?
A: **Nanjing** (accept: **Nanking**)
64. Flippases and floppases are enzymes that transport lipids across what outer layer of an animal cell?
A: cell **membrane** (accept: **plasma membrane**)
65. What three colours are found in the titles of a trilogy of films by Krzysztof Kieslowski ["KSHISH-toff kyesh-LOFF-ski"], centred respectively on the themes of liberty, equality, and fraternity?
A: **blue** AND **white** AND **red**
66. Margaret Mitchell wrote what novel about Scarlett O'Hara, the daughter of a plantation owner?
A: **Gone with the Wind**
67. 2017's "Body" was a massive hit for what electronic duo from London, Ontario?
A: **Loud Luxury**
68. Before the rise of Labour, what was the main rival of Britain's Conservative Party?
A: **Liberal** Party
69. What American is the author of the *Stormlight Archive* and the *Mistborn* trilogy?
A: Brandon **Sanderson**
70. What word refers to the centre of gravity around which a binary star system orbits?
A: **barycentre**
71. What specific kind of tool, designed to cut irregular curves such as stenciled designs, names a type of puzzle that was originally called a "dissected map"?
A: **jigsaw**

72. What is the largest island at least partially owned by Indonesia?

A: **New Guinea**

73. What is 64 to the power of one-third?

A: **4**

74. The Galapagos Islands are owned by what country?

A: **Ecuador**

75. What is the bottom-most of the three layers of skin tissue?

A: **hypodermis**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: What band graphically described vomit as "oatmeal pizza" and "stomach acid worms that dance in sugared sludge" in their song "Mexican Seafood"?

77. Part 2: In another song, this band described how they would "chew your meat for you / pass it back and forth / in a passionate kiss / from my mouth to yours".

78. Part 3: This band's lead singer described being on "warm milk and laxatives / cherry-flavoured antacids" as well as the titular herbal remedy on the song "Pennyroyal Tea", one of several songs written about his chronic stomach pains.

79. Part 4: This band depicted an anatomical mannequin with angel wings on the cover of *In Utero*, shortly before the death of Kurt Cobain.

A: **Nirvana**

Streak

80. Name up to any four of the seven namesake divisions, formerly part of the Trucial States, that make up the

A: **Dubai**

A: **Abu Dhabi**

A: **Sharjah**

A: **Ajman**

A: **Ras Al Khaimah**

A: **Fujairah**

A: **Umm Al Quwain**

Set of 3: Models

82. What model walked down the runway to "The Girl from Ipanema" at the opening ceremony of the 2016 Olympics, held in Rio?

A: Gisele **Bündchen** (prompt on: Gisele)

83. Associated with Gia Carangi and Kate Moss, what controversial 1990s modelling style was characterized by pale skin, dark eye circles, and thinness, supposedly to mimic drug use?

A: **heroin chic**

84. With a signature look of short hair and long eyelashes, what model became a cultural icon closely associated with the Swingin' 60s movement in England?

A: **Twiggy** (accept: Lesley Lawson)

Set of 4: Before and After

The answers in this category will consist of two names or terms that have been combined based on the letter sequence they share in common. For example, given the question "the first prime minister of Canada and the president of the United States", the answer would be "John A. Macdonald Trump".

85. The 2014, '16, and '19 American League MVP, and a composition for piano and accompaniment by Franz Schubert.

A: **Mike Trout Quintet**

86. The only Central American country not to border the Caribbean, and a 2000s TV show that features a talking backpack and a talking monkey named Boots.

A: **El Salvador the Explorer**

87. The last step of most gymnastics routines, and a man-made landmark in the Black Hills of Dakota.

A: **dismount Rushmore**

88. The province that contains Moose Jaw and Prince Albert, and an MCU miniseries that progresses through sitcom history.

A: **Saskatchewanadavision**

12-Part Blitz

89. Aztec mirrors were generally made from what black volcanic rock?

A: **obsidian**

90. *A Two-Spirit Journey* by Ma-Nee Chacaby is the 2025 winner of what competition, in which five contestants each argue for the merits of a different Canadian book?

A: **Canada Reads**

91. What empire invaded Greece multiple times in the 5th century BC?

A: **Persian** Empire (accept: **Achaemenid** ["uk AY-men-id"] Empire)

92. In 2010, what network premiered Conan O'Brien's eponymous talk show?

A: **TBS**

93. What Renaissance painter was known for portraits wherein the subject is entirely comprised of inanimate objects, such as fruits and vegetables?

A: Giuseppe **Arcimboldo** (accept: Giuseppe **Arcimboldi**)

94. What kind of animals are the main characters in the *Guardians of Ga'Hoole* series?

A: **owls** (prompt on: **birds**)

95. Who declared that "Malt does more than Milton can to justify God's ways to man" in his poem "Terence, this is Stupid Stuff"?

A: A.E. **Housman** (accept: Alfred Edward **Housman**)

96. Lagoon Blue, Clawdeen, and Frankie Stein are all characters in what multimedia franchise that originated as a line of dolls?

A: **Monster High**

97. Inspired by films like *Guess Who's Coming to Dinner*, Ember tries to battle her parents' prejudices against Wade in what Pixar movie?

A: **Elemental**

98. Electrochemical species are plotted along axes of voltage potential and pH in what diagram, named for a Belgian chemist?

A: **Pourbaix** diagram

99. What name is given to the standard wireless controllers for the Nintendo Switch?

A: **Joy-Cons**

100. What type of furniture lends its name to the flat-topped mountain overlooking Cape Town?

A: **table**

END OF GAME