



2024 Summer Open (T1) – Pack 5

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PACK 5

5-Part Blitz

1. Who played five straight hard-fought world championship matches against Garry Kasparov and was World Chess Champion from 1975 to 1985?
A: Anatoly **Karpov**
2. The "U" in "URL" stands for what word, which also represents "U" in the NATO phonetic alphabet?
A: **uniform**
3. How many major deities lived on Mount Olympus in Greek mythology?
A: **12**
4. What grammatical mood is used to discuss hypothetical situations and things that should have happened?
A: **subjunctive** mood
5. The bonds in the nitrate anion have what bond order?
A: **4/3** ["four thirds"] or ["four over three"]

Double Jumps

6. Who finally won a Best Actor Oscar for his portrayal of frontiersman Hugh Glass in *The Revenant*?
A: Leonardo **DiCaprio**
7. Who won the Best Cinematography Oscar for *The Revenant*, becoming the first person ever to win it three years in a row?
A: Emmanuel **Lubezki**
8. "The Black Pope" is a nickname given to the leader of what Catholic organization, founded in 1540 by Ignatius of Loyola?
A: **Jesuits** (accept: **Society of Jesus**)
9. The Jesuits played a key role in what movement, begun after the Council of Trent, in which the Catholic Church pushed aggressively to regain ground recently lost to the new Protestant faiths?
A: **Counter-Reformation**

Set of 4: Watercraft in Art

10. What modern-day city is the setting of a painting that includes a boat about to crash into a bridge and other various daily scenes during a spring holiday, called *Along the River During the Qingming Festival*?
A: **Kaifeng**
11. What Indigenous Canadian artist sculpted the Wolf, the Eagle, the Raven, and other passengers aboard a dugout canoe in his *Spirit of Haida Gwaii*?
A: Bill **Reid**
12. What commander-in-chief was depicted in a massive painting by Emanuel Leutze in a boat crossing the icy Delaware River?
A: George **Washington**
13. *The Fighting Temeraire* and *The Slave Ship* were both painted by what English Romantic artist?
A: JMW **Turner**

Jackpot

14. Part 1: What team pioneered the signing of European players, such as Lars-Erik Sjoberg, Anders Hedberg and Ulf Nilsson, en route to winning three Avco World Trophies?
15. Part 2: This team was the originator of the tradition of fans wearing white to home playoff games, known as its city's namesake "whiteout".
16. Part 3: This team's previous incarnation became the Arizona Coyotes, and its current incarnation was previously the Atlanta Thrashers.
17. Part 4: Along with the Blue Bombers, this is one of only two major professional sports teams from Manitoba.
A: **Winnipeg Jets** (prompt on partial answers)

Set of 3: Japanese Streetwear Brands

18. What artistic director of Kenzo is best known for founding Bape?
A: **Nigo** (accept: **Nagao** Tomoaki)
19. Rei Kawakubo founded what fashion brand whose name means "Like Boys"?
A: **Comme des Garçons**
20. "UT" is the graphic T-shirt line of what casual wear retailer?
A: **Uniqlo**

5-Part Blitz

21. Ube ["OO-bay"] ice cream often tops what crushed ice dessert popular in the Philippines?
A: **halo-halo** (accept: **haluhalo**)
22. On December 31st, 2022, what former pope from Germany passed away?
A: Pope **Benedict the 16th** (prompt on: Pope **Benedict**) (accept: Joseph Aloisius **Ratzinger**)
23. What is the most widely-used language that is read from right to left?
A: **Arabic**
24. What is the only living species of the genus Panthera that is native to the Americas?
A: **jaguar**
25. What did the handsome ranger have on his hip when he rode into the town of Agua Fria, according to Marty Robbins?
A: a **big iron** (prompt on: **gun**)

END OF FIRST QUARTER

SECOND QUARTER

Splits: Greek Letters in Physics and Math & Roald Dahl's Stories

Greek Letters in Physics and Math

Given two uses in physics or math, give the Greek letter.

26. The Lorentz factor, or the type of electromagnetic radiation with the shortest wavelength and highest photon energy.
A: **gamma**
27. The coefficient of friction, or the prefix "micro".
A: **mu** ["myoo"]
28. Represents the Heaviside step function, or angles in trigonometry.
A: **theta**

29. In measure theory, this letter is used for an algebra on a set that defines its measurable subsets; to an engineer, it signifies stress.
A: **sigma**

Roald Dahl's Stories

30. Aside from the title character, name any two of the other four children who receive a golden ticket for a tour of Willy Wonka's chocolate factory.
A: any two of **Violet Beauregarde** OR **Mike Teavee** OR **Veruca Salt** OR **Augustus Gloop** (either first or last name acceptable)
31. What item runs over the evil aunts Spiker and Sponge before it serves as a vessel to transport James Henry Trotter across the Atlantic and onto the Empire State Building?
A: giant **peach**
32. What Dahl story follows a boy and his grandmother attempting to stop an evil society from using poisoned chocolate to turn England's children into mice?
A: *The* **Witches**
33. In the title of a book referring to a large character befriended by Sophie, what does BFG stand for?
A: **Big Friendly Giant**

Double Jumps

34. People who worked in what locations often suffered from a disease known as "black lung" and would test for poisonous gasses in their workspaces by using canaries?
A: **coal mines** (prompt on: mines)
35. What coal-mining town in Nova Scotia suffered a 1958 disaster in which a seismic "bump" caused part of a mine to collapse, killing 75 miners?
A: **Springhill**
36. Lyrics about "a baffled king composing" and declaring "love is not a victory march" are heard in what classic Leonard Cohen song?
A: **"Hallelujah"**
37. What Canadian musician covered "Hallelujah" for the movie Shrek?
A: Rufus **Wainwright**

Set of 4

38. Alecia Moore is the real name of what pop artist, responsible for songs such as "TRUSTFALL", "Get the Party Started", and "So What"?
A: **P!nk** ["pink"]
39. Flamingos have pink feathers due to the presence of what animal in their diet?
A: **shrimp** (accept: **prawns**, **algae**)
40. What kind of dessert is the company Pinkberry most famous for?
A: **frozen yoghurt** (accept: **froyo**)
41. In its first film appearance, what kind of object is the Pink Panther?
A: **diamond** (prompt on: gemstone, jewel)

Set of 4: Government Acronyms

Given a description of a government agency and the acronym it is commonly known by, give the full name that the acro

42. The successor of the OSS and the United States' independent foreign intelligence service, the CIA.
A: **Central Intelligence Agency**

43. An international body that promotes agreements to reduce tariffs, the WTO.
A: **World Trade Organization**
44. The agency that acts as the secretariat to the Cabinet of Canada, the PCO.
A: **Privy Council Office**
45. Canada's primary intelligence agency, CSIS ["SEE-sis"].
A: **Canadian Security Intelligence Service**

5-Part Blitz

46. The arrector pili muscles cause what physical reaction to fear or cold?
A: **goosebumps** (accept: **goose pimples**)
47. What word describes the vertebrae in the lower back, above the sacrum and beneath the thoracic vertebrae?
A: **lumbar** vertebrae
48. All of the characters except for Berenger turn into what titular animal in a 1959 absurdist play by Eugene Ionesco?
A: **rhinoceros**
49. What head of the Brotherhood of Sleeping Car Porters, along with Bayard Rustin and Martin Luther King, organized and spoke at the 1963 March on Washington?
A: Asa Philip **Randolph**
50. What country owns Svalbard, an archipelago located between the Greenland and Barents Seas?
A: **Norway**

END OF FIRST HALF

THIRD QUARTER

Splits: Literary Devices & Chinese Dynasties

Literary Devices

51. What punctuation mark shares its name with a literary device in which a character addresses speech to an off-screen character or an inanimate entity?
A: **apostrophe**
52. What poetic form has neither consistent rhyme nor consistent metre?
A: **free verse**
53. What word describes the situation in which a poetic line does not finish a phrase, but the meaning spills over to the next line?
A: **enjambment**
54. The opening line of "Mending Wall" is an example of what device, in which the usual word order of a sentence is rearranged?
A: **anastrophe**

Chinese Dynasties

Name the Chinese dynasty from the description given.

55. Li Si carried out many vital standardizing reforms during this dynasty as Chancellor under both of its emperors.
A: **Qin** ["chin"] Dynasty

56. This was the first conquest dynasty to rule over China, founded by Kublai Khan.
A: **Yuan** Dynasty (accept: **Mongol** Dynasty)
57. China reached its greatest-ever size under this dynasty, during the rule of the Qianlong Emperor.
A: Great **Qing** ["ching"] Dynasty (accept: **Manchu** Dynasty)
58. The Hongwu Emperor founded this dynasty, which later built the Forbidden Palace and was the penultimate imperial dynasty.
A: Great **Ming** Dynasty

Double Jumps

59. What series, co-created by John Tobias and Ed Boon, is known for its bloody fatalities?
A: **Mortal Kombat**
60. In the first *Mortal Kombat* game, doing a complicated series of steps on the Pit stage allowed players to fight what secret character, a green-clad ninja?
A: **Reptile** (accept: **Syzoth**)
61. Chisinau is the capital city of what country sandwiched between Ukraine and Romania?
A: **Moldova**
62. Tiraspol is the capital of what small Russian-supported breakaway state situated between the Dniester ["NEE-ster"] river and Moldova's border with Ukraine?
A: **Transnistria**

Set of 3: Pacific Geography

63. What is the tallest mountain in the world as measured from base to peak?
A: **Mauna Kea**
64. Name either of the two countries that control the Aleutian ["al-OOSH-an"] Islands, which make up the southern border of the Bering Sea.
A: **Russia** OR the **United States of America** (accept either bolded part) (accept: **USA**)
65. Mount Tambora and the San Andreas Fault are both part of what geographic feature surrounding the Pacific, known for heavy seismic activity?
A: Pacific **Ring of Fire**

Set of 5: Climate Science

66. Pollen samples and ice cores are examples of what things, which enable scientists to reconstruct data from prehistoric climates?
A: climate **proxy**
67. The global ocean "conveyor belt" is primarily driven by temperature and what other variable, which together determine the density of seawater?
A: **salinity** (accept: **saltiness**, **salt** content, **salt** concentration)
68. The patterns of Earth's axial tilt, eccentricity, and precession together create what periods, which help explain the recurrence of ice ages?
A: **Milankovitch** cycles
69. What term refers to reservoirs that capture more carbon than they release?
A: carbon **sinks**
70. The large-scale farming of cattle and other ruminants is a major contributor to concentrations of what greenhouse gas?
A: **methane** (accept: **CH4**)

5-Part Blitz

71. What name is commonly given to a railway station at which multiple different railway companies are connected?
A: **Union** Station (prompt on: junction station)
72. Alphabetically, which element of the periodic table comes last?
A: **zirconium** (accept: **Zr**)
73. How many "I"s are in the word "minuscule"?
A: **one**
74. In economics, what act consists of gaining wealth through socio-political manipulation without necessarily creating any wealth oneself?
A: **rent-seeking** behaviour
75. What astronaut played golf on the moon during Apollo 14 and, as one of the Mercury 7, became the first American to go to space?
A: Alan **Shepard**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: What character receives the advice "Family. You can't give up on them. Never. I mean, what else is there?" from a John DeLancie-played character following a conversation about parenting and a nephew experiencing life difficulties?
77. Part 2: This person first proposed the idea of buying Vamonos Pest, and often visited a cafe called The Grove to meet with a stevia-loving employee of Madrigal Electromotive.
78. Part 3: This person received the advice "I took a half measure when I should have gone all the way. No more half measures".
79. Part 4: This person often worked with the owner of Los Pollos Hermanos, Gus Fring. Jesse Pinkman was this person's literal partner in crime running a meth dealing empire in Breaking Bad.
A: **Walter White** (accept: **Heisenberg**) (prompt on: White) (reject: Walter White Junior)

Streak

80. Name up to all four American state capitals that are named for American presidents.
A: **Jackson**, Mississippi
A: **Madison**, Wisconsin
A: **Lincoln**, Nebraska
A: **Jefferson City**, Missouri

Streak

82. Standard Classical-era orchestral scores included up to four different woodwind instruments. Name up to a
A: **flutes**
A: **clarinets**
A: **oboes**
A: **bassoons**

Set of 5: Repeating Names

84. The name of what dance style, originally from Cuba, comes from the shuffling sound created by the dancers' feet when they complete two consecutive quick steps?
A: **cha-cha**-cha
85. What is the capital of American Samoa?
A: **Pago Pago**
86. The chronic form of thiamine deficiency is known by what name?
A: **beriberi**
87. Laser vision, self-duplication, and the ability to change his physical properties are among the powers displayed by which character in *The Incredibles*, who is only a baby?
A: **Jack-Jack** Parr (prompt on: Parr)
88. What unreliable narrator lusts after the titular nymphet in *Lolita*?
A: **Humbert Humbert** (accept either bolded part)

12-Part Blitz

89. Name either of the countries connected by the Darien Gap.
A: **Panama** OR **Colombia**
90. What mathematician used his namesake "up arrow" notation to represent repeated exponentiation?
A: Donald **Knuth**
91. Popularized by Bob and Doug MacKenzie, what "H"-word can be used as a Canadian version of "redneck"?
A: **hoser**
92. What doubly-eponymous cycle is used to estimate the lattice energy of an ionic compound?
A: **Born-Haber** cycle
93. What is the first name of Travis Jason Kelce's mother?
A: **Donna**
94. What family has faced numerous lawsuits for its role in the opioid crisis as the owners of Purdue Pharma?
A: **Sackler** family
95. In fall 2023, what american industry was disrupted by its largest ever strike, organized by the UAW union?
A: **car/automobile/automotive** industry (accept: **car/automobile/automotive** manufacturing)
96. Six-four-three and five-four-three are the most common kinds of what play, nicknamed a "pitcher's best friend"?
A: **double play**
97. What "D"-word refers to the gypsum paneling used to cover the wooden studs of a house or apartment interior?
A: **drywall**
98. The Parsi community of India still practices what ancient Persian religion?
A: **Zoroastrianism**
99. What animals can be prevented from exploding with the help of "defuse" cards in a popular card game?
A: **kittens** (prompt on: cats)
100. The line "Don't catch you slippin' now" follows the title of what song by Childish Gambino?
A: **"This is America"**

END OF GAME