



2024 Summer Open (T1) – Pack 3

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PACK 3

5-Part Blitz

1. What is five factorial?
A: **120**
2. What Russian author with an affinity for the grotesque wrote "The Overcoat" and "The Nose"?
A: Nikolai **Gogol**
3. What full name is shared by the director of *Hunger* and *12 Years a Slave*, and the actor who starred in *Bullitt* and *The Great Escape*?
A: **Steve McQueen**
4. What dystopian trilogy set in Panem follows the protagonist Katniss Everdeen?
A: *The **Hunger Games*** trilogy/series/books/etc.
5. In what century did the Crusades begin?
A: **11th** century (accept: **1000s**)

Double Jumps

6. What six-a-side sport features positions like hitters, setters, and a libero?
A: **volleyball**
7. What defensive technique is used to stop spiked balls hit low to the ground, by chipping the ball high up in the air, often with joined arms?
A: **digging**
8. What word refers to a bed of sediment or porous rock that is saturated with groundwater?
A: **aquifer**
9. What quality of aquifers, calculated using Darcy's Law, is usually highest for limestone and fractured rock and lowest for gravel?
A: **permeability**

Set of 4: Ancient Greece

10. Mostly found at Mycenaean sites in Knossos and Pylos, what script was used for the earliest attested form of the Greek language?
A: **Linear B**
11. According to legend, Homer was from what Greek region in modern-day Turkey?
A: **Ionia**
12. The *History of the Peloponnesian War* is the most famous work by what historian, influential on the realist school of international relations?
A: **Thucydides**
13. What author of the "Ode to Aphrodite" was sometimes nicknamed the "tenth muse" and hailed from the island of Lesbos?
A: **Sappho**

Jackpot

14. Part 1: The southern boundary of what region is often defined as the southernmost place where the flower *cornulaca monocantha* still grows, or as the southernmost place where the grass *cenchrus biflorus* no longer grows?
15. Part 2: This natural region is dotted with gueltas and contains the Hoggar mountains.
16. Part 3: This region had a drastically different climate from about 15,000 to 5,000 years ago, the so-called AHP, which is part of a 40,000-year fluctuation caused by changes in the Earth's orbit and axial tilt.
17. Part 4: This region is home to the Tuareg people and its largest city is Nouakchott. To the south of this region, several countries are attempting to build the Great Green Wall across the Sahel.
A: **Sahara** Desert (prompt on: North Africa on Part 1)

Set of 3: Television of the 1950s

18. The Ricardos are the main family of what sitcom that starred Lucille Ball?
A: ***I Love Lucy***
19. What radio and television show was a Western drama set in Dodge City, Kansas?
A: ***Gunsmoke***
20. In 1959, Rod Serling created what macabre science fiction anthology series?
A: ***The Twilight Zone***

5-Part Blitz

21. On what island would you find the Pico Duarte, the tallest mountain in the Caribbean?
A: **Hispaniola**
22. To the nearest whole number, one radian is equal to how many degrees?
A: **57** degrees
23. What word refers to characters in *League of Legends*?
A: **champions** (prompt on: champs)
24. Standards such as the IFRS and the GAAP are followed in what profession, Canadian practitioners of which use the CPA designation?
A: **accounting** (accept: **accountants**)
25. What is the largest species of fish in the world?
A: **whale shark** (accept: **rhincodon typus**)

END OF FIRST QUARTER

SECOND QUARTER

Splits: Shakespearean Speeches & Abraham Lincoln

Shakespearean Speeches

Given an excerpt from a Shakespearean speech, name the play in which it is found.

26. "All the world's a stage, And all the men and women merely players; They have their exits and their entrances"
A: ***As You Like It***
27. "What a piece of work is a man! How noble in reason, how infinite in faculty! In form and moving how express and admirable! In action how like an angel, in apprehension how like a god!"
A: ***Hamlet***

28. "If music be the food of love, play on, Give me excess of it; that surfeiting, The appetite may sicken, and so die."
A: **Twelfth Night** (accept: **What You Will**)
29. "Life's but a walking shadow, a poor player, That struts and frets his hour upon the stage, And then is heard no more. It is a tale Told by an idiot, full of sound and fury, Signifying nothing."
A: **Macbeth**

Abraham Lincoln

30. What did Lincoln declare that "this nation, under God, shall have" in his Gettysburg Address?
A: a **new birth of freedom** (prompt on partial answers)
31. Lincoln was the first president to hail from what political party?
A: **Republican** Party (accept: **GOP**)
32. What order did Lincoln issue on January 1, 1863, legally freeing millions of slaves in the Confederacy?
A: **Emancipation Proclamation**
33. Following Lincoln's assassination, what poet wrote four elegies in his memory, including "When Lilacs Last in the Dooryard Bloom'd" and "O Captain! My Captain!"?
A: Walt **Whitman**

Double Jumps

34. What is the primary element in pewter, also alloyed with copper in bronze?
A: **tin** (accept: **Sn**)
35. Although in antiquity pewter was an alloy of tin with lead, what element is the second most abundant, after tin, in modern pewters?
A: **antimony** (accept: **Sb**)
36. In 2023, who released the songs "Deli" and "In Ha Mood", and was featured on "Boy's A Liar" by PinkPantheress and "Karma" by Taylor Swift?
A: **Ice Spice** (accept: Isis **Gaston**)
37. What is the name of Ice Spice's only EP, released in January 2023?
A: **Like..?**

Set of 4

38. The words bagel, schmooze, klutz, and chutzpah all came to English from what language?
A: **Yiddish**
39. Yiddish is a member of what language family?
A: **Germanic** (prompt on: **Indo-European**)
40. What word refers to the mainly Yiddish-speaking diaspora of Jews who have lived in Central and Eastern Europe since around AD 1000, many of whom have now moved to Israel?
A: **Ashkenazis** (accept: **Ashkenazim**)
41. Use of Yiddish has declined precipitously since the early-20th-century revival of what language, now the primary language of Israel?
A: Modern **Hebrew**

Set of 4: Grocery Stores

42. What store, whose workers won a dollar-and-fifty-cent pay increase after a month-long strike last summer, also owns Food Basics?
A: **Metro**

43. What brand of discounted products with yellow-and-black packaging can be found in No Frills and Loblaws stores?
A: **No Name**
44. What grocery store chain owns Safeway, IGA, Farm Boy, and FreshCo, and sells the Compliments brand of products?
A: **Sobeys**
45. What kind of food did Metro, Loblaws, Sobeys, and other Canadian chains conspire to fix the price of from 2001 to 2017?
A: **bread**

5-Part Blitz

46. What first name was shared between the king of England at the beginning of the Hundred Years' War and his son the "Black Prince"?
A: **Edward**
47. What 40-day period is preceded by the Carnival in Western Christian tradition?
A: **Lent**
48. Popular during the pandemic, what cartoonish battle royale game sees beans compete in successive rounds of a Wipeout-style game show?
A: **Fall Guys**
49. What French-derived term beginning with "B" refers to a short piano composition in a light style?
A: **bagatelle**
50. Who criticized urban renewal in her book *The Death and Life of Great American Cities*?
A: Jane **Jacobs**

END OF FIRST HALF

THIRD QUARTER

Splits: Artificial Intelligence & Word Puzzles

Artificial Intelligence

51. First proposed by Rummelhart, Hinton, and Williams, what gradient estimation algorithm is used to train a neural network by adjusting the weights of neurons?
A: **backpropagation** (accept: **backward propagation** of errors)
52. Joaquin Phoenix develops a relationship with an artificially intelligent virtual assistant voiced by Scarlett Johansson in what 2013 movie?
A: **Her**
53. In a neural network, what term names the layers of neurons between the input and output layers?
A: **hidden** layers
54. After having beaten it 4-2 the previous year, what World Chess Champion lost a 1997 rematch to Deep Blue?
A: Garry **Kasparov**

Word Puzzles

The letters in these questions will not be rearranged.

55. What letter can be added to a word meaning shark bait to get a word meaning a fool?
A: **P** (chum -> chump)

56. What letter can be added to a word meaning a resident of the country north of England to get a kind of tie with wide pointed wings?
A: **A** (scot -> ascot)
57. Two of what letter can be added to a word meaning a bundle of goods, such as hay, to get a word with examples like El Alamein and Stalingrad?
A: **I** (bale -> battle)
58. What letter can be added to a word meaning the location of an event to get a word meaning to enact divine punishment?
A: **M** (site -> smite)

Double Jumps

59. Lexus is the luxury division of what largest Japanese car manufacturer?
A: **Toyota**
60. Lexus was created in 1989, the same year that Nissan launched what luxury division?
A: **Infiniti**
61. People with what zodiac sign are sometimes thought to be two-faced, because it is represented by the twins?
A: **Gemini**
62. Aside from Gemini, name both of the other two air signs in the Western zodiac.
A: **Libra** AND **Aquarius**

Set of 3: The Walt Disney Company

63. What politician was sued for allegedly violating Disney's First Amendment rights, after he eliminated the Reedy Creek Improvement District following the company's criticism of his so-called "Don't Say Gay" bill?
A: Ron **DeSantis**
64. Both Disneyland, in Anaheim, and Disney World, in Florida, are found in counties with what name?
A: **Orange** County
65. Following a highly successful 15 year stint and Bob Chapek being fired for poor performance, who returned as CEO of the Walt Disney Company in 2022?
A: Bob **Iger** (accept: Robert **Iger**)

Set of 5: Vincent van Gogh

66. While living in Arles, van Gogh made many paintings for what other painter, who came to live with him for a few months?
A: Paul **Gauguin**
67. After a fight with Gauguin, what body part did van Gogh cut off?
A: his own left **ear**
68. Many of van Gogh's paintings from Arles are dominated by what colour, which makes up the floor of *The Night Café* and the walls of *The Café Terrace at Night*?
A: **yellow**
69. What homeopathic doctor did van Gogh paint several portraits of shortly before committing suicide?
A: Dr. Paul **Gachet**
70. In the last year of his life, van Gogh painted many of what kind of pastoral landscape, including one "with Crows"?
A: **wheatfields** (prompt on: **fields**)

5-Part Blitz

71. *Giant Steps* is an album by what jazz saxophonist?
A: John **Coltrane**
72. In what game is a threatened group of pieces said to be in atari?
A: **go**
73. What is the French-language counterpart to TSN?
A: **RDS** (accept: **Réseau des sports**)
74. How many types of gluons are there?
A: **8**
75. What single word is often used as a synonym for “drainage basin”?
A: **watershed** (accept: **catchment**)

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: Who is the subject of a 2019 musical by Joe Pietro and David Bryan, which was released on Netflix as a filmed stage performance in 2021?
77. Part 2: John Mulaney joked that he had an airtight alibi for this person’s death, given that at the time he was in Wisconsin and aged twelve.
78. Part 3: Emma Corrin and Elizabeth Debicki both played this woman in a Netflix series.
79. Part 4: In 1997, Elton John rewrote “Candle in the Wind” after the death of this member of Britain’s royal family.
A: **Diana**, Princess of Wales (accept: Princess **Diana**, Diana **Spencer**)

Streak

80. Name up to every country that owns nuclear weapons.
- A: **United States** of **America** (accept either bolded part) (accept: **USA**)
- A: **Russia**
- A: **United Kingdom** (accept: Great **Britain**, **UK**)
- A: **France**
- A: **China**
- A: **Israel**
- A: **India**
- A: **Pakistan**
- A: **North Korea**

Streak

84. Name up to all of the countries that share a land border with Indonesia.
- A: **Malaysia**
- A: **East Timor** (accept: **Timor-Leste**) (reject: **Timor**)
- A: **Papua New Guinea** (prompt on: **Papua**) (reject: **Guinea**, **New Guinea**)

Set of 3: The Cuban Revolution

86. After Fidel Castro became prime minister in February 1959, to what city did he make his first international trip two months later, with a large diplomatic delegation?
A: **Washington, DC** (accept either bolded part)
87. What dictator was overthrown by the revolution?
A: Fulgencio **Batista**
88. What American city is home to more than a million Cuban exiles, and their descendants, who have left since the Revolution?
A: **Miami**

12-Part Blitz

89. What compound consists of a methyl group attached to a benzene and represents the second "T" in the acronym TNT?
A: **toluene**
90. Ethmoidal, sphenoidal, maxillary, and frontal are the four pairs of what in the human head?
A: paranasal **sinuses**
91. Who is the protagonist of the *Diary of a Wimpy Kid* series?
A: **Greg** Heffley (prompt on: Heffley)
92. What novel by Miriam Toews ["taves"] was adapted by director Sarah Polley into a 2022 film?
A: **Women Talking**
93. Who was the first Inuk player in the National Hockey League?
A: Jordin **Tootoo**
94. What movie chronicles a romance between "Baby" Houseman, played by Jennifer Grey, and Johnny Castle, played by Patrick Swayze?
A: **Dirty Dancing**
95. What operator on a vector field is negative at points where nearby vectors tend to be directed inward, and positive at points where they tend to be directed outwards?
A: **divergence**
96. What kind of diagram shows all of the forces acting on an object?
A: **free-body** diagram
97. Contrary to its name, what motorsports event has been held outside of Africa since 2009?
A: **Dakar Rally** (accept: Paris-**Dakar Rally**)
98. What muscle causes breathing by expanding and contracting the lungs?
A: **diaphragm**
99. What symphony by Gustav Mahler opens with a four note motif played by a solo trumpet and features a solo harp in its "Adagietto" fourth movement?
A: Symphony No. **5** (accept: Mahler's **Fifth** Symphony)
100. Grace Hopper's discovery of a moth affecting the performance of a computer helped popularize the usage of what three-letter word to describe errors in computing?
A: **bug**

END OF GAME