



2024-25 Junior Late Fall Tournament (T1) – Pack 9

Head Editor: *Zhongtian Wang*

Writers/Editors: *Odin Fisher-Skau, Max Gedajlovic, Ian Greig, Paul Kasiński, Yadu Kukenthiran, Jenny Mao, Malhaar Moharir, Jack van Nostrand, Ryan Sharpe, Joe Su, Isaac Thiessen, Zhongtian Wang, Adrian Wong*

PACK 9

5-Part Blitz

1. What country was established by the Sons of Jacob as a theocratic successor state to the US in *The Handmaid's Tale*?
A: Republic of **Gilead**
2. What alliterative name is given to emergency warnings that a child has been abducted?
A: **Amber Alert**
3. What so-called law states that as an Internet argument grows longer, someone will inevitably compare someone else to Hitler?
A: **Godwin's law**
4. What subfield of linguistics studies how words work together to create phrases and sentences?
A: **syntax**
5. Triboelectricity is generated via what phenomenon, which involves materials rubbing against each other?
A: **friction**

Double Jump

6. Two atoms with a low electronegativity difference will form what kind of atomic bond?
A: **covalent** bond
7. What is the strongest type of covalent bond, in which two atomic orbitals overlap head-on?
A: **sigma** bond

Double Jump

8. The longest in Europe, what river empties into the Caspian Sea after flowing through the centre of European Russia?
A: **Volga** River
9. The largest city on the Volga is what capital of Tatarstan, the third-largest city in European Russia?
A: **Kazan**

Set of 4: Seconds

10. In the early 1990s, which NFL team lost four consecutive Super Bowls?
A: **Buffalo Bills** (accept either bolded part)
11. After Ganymede, what is the second-largest moon in the solar system?
A: **Titan**
12. An hour contains how many seconds?
A: **3600** seconds
13. You will have five seconds. The equation y equals $3x$ squared has what constant second difference?
A: **6**

Jackpot

14. Part 1: Who created a work whose ending depicts a line of people placing stones, followed by two red roses, on a grave?
15. Part 2: One work by this person was adapted from a Thomas Keneally novel named for its protagonist's Ark.
16. Part 3: A movie directed by this person uses a two-note motif to represent impending attacks in the town of Amity Island, and is often cited as the first blockbuster.
17. Part 4: This man directed movies such as *Schindler's List* and *Jaws*.
A: Steven **Spielberg**

Set of 3: "Problem"-atic Literature

Each question pertains to a literary work with the word "problem" in its title.

18. What short story by Arthur Conan Doyle marks the first appearance of the archnemesis of Sherlock Holmes, James Moriarty?
A: "The Adventure of the **Final Problem**"
19. What Christian author wrote about reconciling evil and suffering with the benevolence of God in *The Problem of Pain*?
A: C.S. **Lewis**
20. Taking its title from a quote by former Secretary of State Warren Christopher, what Pulitzer Prize-winning book by Samantha Power examines the US's response to genocide in the 20th century?
A: "A **Problem from Hell**": *America and the Age of Genocide*

5-Part Blitz

21. The largest imperial forum in Ancient Rome was constructed by what emperor in the early 2nd century AD?
A: **Trajan**
22. What adjective describes a character with the surname Rockatansky, who has been portrayed by Mel Gibson and Tom Hardy?
A: **mad**
23. Ezra Pound's "River Merchant's Wife" is a loose translation of a poem by what prolific Tang dynasty poet?
A: **Li** Bai (accept: **Li** Po)
24. Criticizing or insulting a comedian on stage is referred to by what term?
A: **heckling** (accept word forms)
25. What demonym is shared by inhabitants of an ancient civilization and inhabitants of the capital of Arizona?
A: **Phoenician**

END OF FIRST QUARTER

SECOND QUARTER

Splits: French Suffixes & Shoes

French Suffixes

Players are reminded that spelling questions should be answered in English.

26. Nearly all French words that end in "-tion" have what property?
A: they are **feminine** nouns (prompt on: they are nouns)

27. What suffix is equivalent to the English suffix “-ly”, turning a word from an adjective into an adverb?
A: **-ment**
28. What three letters end the masculine version of the word “actrice”?
A: **-eur**
29. Spell the 5-letter suffix used to conjugate the imparfait in the third person plural.
A: **A-I-E-N-T**

Shoes

30. The signature product of Blundstone Footwear is what type of ankle-length boot that has an elastic side panel and a tab on the back?
A: **Chelsea** boot
31. Sharing its name with a woman’s name, what closed-toe shoe has low heels and at least one strap across the top that is fastened with a buckle or button?
A: **Mary Jane**
32. The soles of clogs are traditionally made of what material?
A: **wood**
33. Named for an animal, what type of heel is less than five centimetres in height and has a slight curve?
A: **kitten** heel

Double Jump

34. Roald Amundsen and his Norwegian crew became the first people to reach what site on December 14th, 1911?
A: geographic **South Pole**
35. What British explorer led the expedition that reached the South Pole 33 days after Amundsen?
A: Robert Falcon **Scott**

Double Jump

36. Who composed a lively E-major violin concerto nicknamed “Spring”?
A: Antonio **Vivaldi**
37. Whose first symphony, also nicknamed “Spring”, includes themes from his earlier *Kreisleriana*?
A: Robert **Schumann**

Set of 4: The Immune System

38. Granulocytes, lymphocytes, and monocytes are all subtypes of what cells of the immune system, contrasted with other blood cells by the presence of a nucleus?
A: **white blood cells** (accept: **leukocytes**)
39. Particularly important in the immune response for children, what organs act as the first line of defense against inhaled pathogens such as the common cold?
A: **tonsils**
40. What subsystem of the immune system involves a collection of vessels that circulate fluid, as well as nodes that swell up in response to infection?
A: **lymphatic** system
41. The maturation of T cells occurs in what organ near the heart?
A: **thymus**

Set of 5

42. This August in Chicago, who attracted the largest daytime crowd in Lollapalooza's history?
A: Chappell **Roan** (accept: Kayleigh Rose **Amstutz**)
43. A video of Queen performing "Radio Ga-Ga" and an unfulfilled childhood interest in cheerleading were the inspiration for what 2023 song by Roan?
A: **"Hot to Go!"**
44. Roan laments a relationship with a woman who can't accept her attraction to women in what 2024 single?
A: **"Good Luck, Babe!"**
45. A bar called The Abbey in West Hollywood inspired the title location of what Roan song, where she's "gonna keep on dancing"?
A: **"Pink Pony Club"**
46. Also well-known for his work with Olivia Rodrigo, what songwriter produced and co-wrote most of the songs on Roan's debut album?
A: Dan **Nigro**

4-Part Blitz

47. What TV show's season 8 opening concerned the consequences of a truck releasing a swarm of killer bees?
A: **9-1-1** (reject: ["nine-eleven"])
48. On what island does the Gulf of Gonâve ["go-NAV"] indent into the coast of Haiti?
A: **Hispaniola**
49. On the Night of Power, what man was inside the Cave of Hira when the angel Gabriel appeared and gave him his first revelation, according to Islamic doctrine?
A: **Mohammed** (accept: **Muhammad**)
50. What "A"-word names an occupation that involves using statistical models and probability theory to assess risk, particularly in the insurance field?
A: **actuary**

END OF FIRST HALF

THIRD QUARTER

Splits: Artificial Intelligence & The Cuban Missile Crisis

Artificial Intelligence

51. Much of modern AI uses what kind of machine learning models, based on the structure of biological brains?
A: artificial **neural network** (accept: **ANN**)
52. Large language models like GPT are what kind of AI, which creates original answers in response to prompts?
A: **generative** artificial intelligence (accept: **generative** AI)
53. What word refers to making an AI aim for the goals that humans want it to aim for, a major goal of AI safety research?
A: **alignment**
54. Geoffrey Hinton, a Professor Emeritus at the University of Toronto, was recently and unexpectedly awarded what prize for his work on AI?
A: **Nobel** Prize in/for **Physics** (accept: **Physics Nobel** Prize) (prompt on: **Nobel** Prize)

The Cuban Missile Crisis

55. Name both the president of the United States and the general secretary of the Communist Party of the USSR at the time of the crisis.
A: John F. **Kennedy** (accept: **JFK**) AND Nikita **Khrushchev**
56. The Soviets deployed missiles in Cuba in response to the US placing their Jupiter missiles in what country the previous year?
A: **Turkey**
57. What DEFCON level did the United States reach at the height of the crisis, indicating that the next step would be nuclear war?
A: DEFCON **2** (accept: DEFCON level **2**)
58. In what year did the Cuban Missile Crisis take place?
A: **1962** (prompt on: '**62**)

Set of 3: Critically-Panned Video Games

59. Confirming a widespread rumour, unsold cartridges of what video game were found in 2014 to have been buried in a New Mexico landfill by Atari?
A: ***E.T. the Extra-Terrestrial***
60. Criticized for being a bland and expensive addition to an already oversaturated market, what first-person shooter game shut down two weeks after its August 2024 launch?
A: ***Concord***
61. The console versions of what game were heavily criticized for having numerous bugs, leading to developer CD Projekt Red becoming the subject of class-action lawsuits?
A: ***Cyberpunk 2077***

Jailbreak

62. Name any of the animated films that have been nominated for the Best Picture Oscar.
A: ***Beauty and the Beast*** OR ***Up*** OR ***Toy Story 3***
63. What island, which has recently been threatened with attack by Hezbollah, is home to the British sovereign base areas of Akrotiri and Dhekelia?
A: ***Cyprus***
64. In gardening and botany, what term is given to plants that live for more than two years?
A: ***perennial***
65. The rehabilitation of sinners is the goal of what titular establishment in a 2024 animated musical comedy show?
A: ***Hazbin Hotel***
66. Against what Iroquois tribe did Samuel de Champlain and his Huron allies win a decisive battle shortly after the establishment of Quebec?
A: ***Mohawk*** tribe/nation/people
67. Expressed in terms of pi, what is the volume of a cone with radius 10 and height 6?
A: **200** times **pi** cubic units (accept: **200** times **pi** units cubed)
68. What "G"-word refers to a forested area that is open to downhill skiing?
A: ***glade***
69. A rope changing direction as it goes over a wheel is an example of what simple machine, several of which are combined in a block and tackle?
A: ***pulley***
70. What "M"-word refers to a row of keys in keyboard instruments such as a harpsichord or an organ?
A: ***manual***
71. The Hoover Dam lies on what river, which flows through the Grand Canyon?
A: ***Colorado*** River

72. What channel produces and airs the *30 for 30* series of documentaries?
A: **ESPN**
73. What river valley was home to Mohenjo-Daro and Harappa, two ancient cities found in what is now Pakistan?
A: **Indus** River Valley
74. What was the first country in the world to adopt a points-based immigration system?
A: **Canada**
75. What two surnames originally named the technology company now known as HP Incorporated?
A: **Hewlett** AND **Packard**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: Together with various braised meats, what is the main ingredient in a dish that is stewed for hours and then repeatedly refrigerated and re-stewed, called bigos ["BEEG-oss"]?
77. Part 2: A fermented dish of radishes and this ingredient is almost always included in an array of small side dishes known as banchan.
78. Part 3: Along with potatoes, this is a main ingredient in colcannon. Savoy and napa are common varieties of this food.
79. Part 4: This is the main ingredient in kimchi, sauerkraut, and coleslaw.
A: **cabbage**

Streak

80. Name up to all of the European countries that still own territory in the Americas.
A: **United Kingdom** of Great **Britain** and Northern Ireland (accept either bolded part) (accept: **UK**)
- A: **France**
- A: The **Netherlands** (accept: **Holland**)
- A: **Denmark**

Streak

82. Of the current apparatuses in Olympic artistic gymnastics, name up to all whose events are open to only one gender.
- A: still **rings** (reject singular form)
- A: **uneven bars** (accept: **asymmetric bars**) (reject singular form)
- A: **parallel bars** (accept: **p-bars**) (reject singular form)
- A: **horizontal bar** (accept: **high bar**) (reject plural form)
- A: **pommel horse** (reject plural form)
- A: balance **beam** (reject plural form)

Set of 4

85. Created by Santa Monica Studio, what mythology-inspired video game series follows characters like Atreus and Kratos?
A: **God of War** franchise/series/games
86. Foretold to be killed by the hound Garmr during Ragnarok, what Germanic war god earlier has his hand bitten off by Fenrir?
A: **Tyr** ["teer"]
87. In Greek mythology, Phobos and Deimos are sons of what god of war?
A: **Ares**
88. Thought to have originated from the Sabine pantheon, what Roman goddess was depicted as Mars's spouse and gets her name from the Latin term for war?
A: **Bellona**

12-Part Blitz

89. What shape is given by the equation $x^2 + y^2 = 1$?
A: unit **circle** (prompt on: ellipse)
90. *Man and Superman* and *Pygmalion* are both plays by what Irish writer?
A: George Bernard **Shaw**
91. At what battle did Harold Godwinson die, leading to the accession of William the Conqueror as king of England?
A: Battle of **Hastings**
92. The first person to ever hold the title of "Second Gentleman of the United States", who is the husband of Kamala Harris?
A: Doug **Emhoff**
93. Who referred to conformity or defining oneself by one's social role as living in "bad faith" in his book *Being and Nothingness*?
A: Jean-Paul **Sartre**
94. In lieu of LOL, what letter do Japanese Internet users write to indicate laughter?
A: **w**
95. What objects does the titular character in a 1990 romantic fantasy film have in lieu of fingers, wherein he carves ice sculptures and is portrayed by Johnny Depp?
A: **scissor**hands
96. According to a superstition, how many years of bad luck does breaking a mirror bring?
A: **seven**
97. Who is the central character in the national epics of Cambodia, Myanmar, and Thailand, who shares his name with many kings of Thailand?
A: **Rama**
98. Between the first quarter and the full moon comes which lunar phase?
A: **waxing gibbous**
99. What royal house included Bonnie Prince Charlie and Mary, Queen of Scots?
A: House of **Stuart**
100. In 2024, Ethiopia, the UAE, Egypt, and Iran all joined what intergovernmental organization that has nonetheless continued to be known by its original five-letter acronym?
A: **BRICS** (reject: BRIC)

END OF GAME