



2023-24 High School Qualifier (T3) – Pack 5

Head Editor: *Ian Greig*

Writers/Editors: *Ian Chow, Hannah Cookson, Odin Fisher-Skau, Max Gedajlovic, Ian Greig, Paul Kasiński, Yadu Kukenthiran, Jenny Mao, Jack van Nostrand, Ryan Sharpe, Joe Su, Isaac Thiessen, Gaian Valdegamo, James Wang, Zhongtian Wang, Adrian Wong, Joyce Xi*

PACK 5

5-Part Blitz

1. A person who cites moral or religious principles as their reason to refuse military service is referred to by what two-word name?
A: **conscientious objector**
2. If you were born on Christmas Day, what would be your Zodiac sign?
A: **Capricorn**
3. What three words precede "Portia" and "Sandrock" in the names of two town management games developed by Pathea?
A: **My Time At**
4. Richard Dawkins's *The Selfish Gene* saw the first use of what term to describe the spread of viral phenomena?
A: **meme**
5. Yale University is located in what Connecticut city?
A: **New Haven**

Double Jump

6. What country's flag was first raised on February 15, 1965 on the Peace Tower in the presence of governor general Georges Vanier?
A: **Canada**
7. Featuring blue bars and three maple leaves, what alliterative term referred to the then-prime minister's preferred choice for the country's new flag?
A: **Pearson Pennant** (accept: **Pearson's Pennant**)

Double Jump

8. What two nonmetals are the two most abundant elements in the Earth's atmosphere?
A: **oxygen** (accept: **O**) AND **nitrogen** (accept: **N**)
9. After oxygen, what are the next two most abundant elements in the Earth's crust?
A: **silicon** (accept: **Si**) AND **aluminium** (accept: **Al**)

Set of 4: Medieval Literature

10. What "hero of the Geats" is the subject of an epic poem in Old English in which he fights Grendel and Grendel's mother?
A: **Beowulf**
11. York, Chester, and Wakefield all name collections of what kind of play, which were often direct representations of Bible stories?
A: **mystery** plays (accept: **miracle** plays, **cycle** plays)
12. Completed in 1321, "Purgatorio", "Paradiso", and "Inferno" are the three sections of what work of epic poetry by Dante Alighieri?
A: *The **Divine Comedy***
13. What daughter of a vizier tells tales to Shahryar in *One Thousand and One Nights*?
A: **Scheherazade**

Jackpot

14. Part 1: Although not originally a Christmas song, the first appearance of what song on a holiday album was on *The Jack Jones Christmas Album* in 1964?
15. Part 2: John Coltrane created a 13-minute adaptation of this song, which appears as the first track on a namesake 1961 album.
16. Part 3: Ariana Grande incorporated the melody of this song in her track "7 Rings".
17. Part 4: "Raindrops on roses and whiskers on kittens" are a few of the title items in this song, sung by Maria von Trapp in *The Sound of Music*.
A: **"My Favorite Things"**

Set of 3: Newspaper Headlines

18. The adage known as Betteridge's Law of Headlines suggests that what simple response can answer any headline that ends in a question mark?
A: **no**
19. What three-word headline was erroneously published by the Chicago Daily Tribune on the night of the 1948 American presidential election?
A: **"Dewey Defeats Truman"**
20. What five-word phrase is said by the "only nation where this regularly happens", according to an oft-reused headline by the Onion about mass shootings?
A: **"No Way to Prevent This"**

5-Part Blitz

21. What country is home to the driest non-polar region in the world, the Atacama desert?
A: **Chile**
22. What Likud politician is the current minister of defense of Israel?
A: Yoav **Gallant**
23. What American novel begins with a poetic epigraph by the fictional Thomas Parke D'Invilliers about a "gold-hatted, high-bouncing lover"?
A: *The* **Great Gatsby**
24. What two colours named "turban" rebellions that occurred during the history of Imperial China?
A: **red AND yellow**
25. Who was the sister-wife of Osiris in Egyptian mythology?
A: **Isis**

END OF FIRST QUARTER

SECOND QUARTER

Splits: 3-Dimensional Shapes & Dog Breeds in Media

3-Dimensional Shapes

26. How many vertices does a truncated icosahedron have? It has the same geometry as a buckyball.
A: **60**

27. For any convex polyhedron, such as a cube, the number of vertices minus edges plus faces is always equal to what number?
A: **2**
28. Revolving a circle around a coplanar axis gives what shape, often likened to a doughnut?
A: **torus**
29. What three-letter word refers to a two-dimensional shape that can be folded into a polyhedron?
A: **net**

Dog Breeds in Media

30. Starring in the films *Cujo* and *Beethoven*, what dog breed is often depicted with a small barrel of brandy around their necks?
A: **St. Bernard**
31. The subject of a long-running television show, what type of herding dog is Lassie?
A: Rough **Collie**
32. In *Brooklyn 99*, Captain Holt's dog Cheddar is what breed, which was also the dog breed favoured by Queen Elizabeth II?
A: **Corgi**
33. To what dog breed do Scrappy- and Scooby-Doo belong?
A: **Great Dane**

Double Jump

34. What major river drains into the East China Sea just north of Shanghai, and is the longest in Asia?
A: **Yangtze** River
35. Located on the Yangtze River in Hubei province, what is the world's largest power station in terms of installed capacity?
A: **Three Gorges Dam**

Double Jump

36. Whose essay *Beyond the Pleasure Principle* first proposed the concepts of the id, ego, and superego?
A: Sigmund **Freud**
37. Give either of the mythologically-inspired names of the competing "love" and "death" drives that Freud claimed were man's primary motivators in *Beyond The Pleasure Principle*.
A: **Eros** OR **Thanatos**

Set of 4: Approximate Sports

38. Within 10, how many hits did Ichiro have in the 2004 MLB season?
A: **262** (accept answers between **252** and **272**)
39. Within 0.1 seconds, what is the men's 200 metre sprint world record?
A: **19.19** (accept answers between **19.09** and **19.29**)
40. Within 50, how many NHL games has Patrick Marleau played?
A: **1,779** (accept answers between **1,729** and **1,829**)
41. Within 200, Ray Allen scored how many career regular season 3-pointers?
A: **2,973** (accept answers between **2,773** and **3,173**)

Set of 4: Books by Sequel

Given the name of some sequels (not necessarily in chronological order), identify the first instalment in the

42. *The Long Haul; No Brainer; Dog Days; Rodrick Rules.*

A: **Diary of a Wimpy Kid**

43. *Inferno; The Da Vinci Code.*

A: **Angels and Demons**

44. *The Subtle Knife; The Amber Spyglass.*

A: *The* **Golden Compass**

45. *P.S. I Still Love You; Always and Forever, Lara Jean.*

A: **To All the Boys I've Loved Before**

5-Part Blitz

46. What desert covers most of southern Mongolia?

A: **Gobi** desert

47. Associated with the Navajo people, what food consists of dough cooked in oil or lard until it becomes puffy?

A: **frybread**

48. What German composer created the Schulwerk ["SHUL-verk"], a method for teaching music to children in groups using improvisation, play, and simple instruments, often percussion?

A: Carl **Orff**

49. What bioweapon-centred horror game franchise features characters such as Claire Redfield, Ada Wong, and Leon Kennedy?

A: **Resident Evil**

50. In Excel and Google Sheets, in order for a cell to execute a mathematical operation, what must be the first character typed into it?

A: **equals** sign

END OF FIRST HALF

THIRD QUARTER

Splits: Common Chemical Names & The Art Gallery of Ontario

Common Chemical Names

51. What common name is given to nitrous oxide, often used in dental procedures?

A: **laughing gas**

52. What chemical known as sodium bicarbonate reacts with vinegar in a neutralization reaction?

A: **baking soda**

53. What name is given to solid carbon dioxide?

A: **dry ice**

54. A mixture of nitric acid and hydrochloric acid is given what name due to its ability to dissolve gold?

A: **aqua regia**

The Art Gallery of Ontario

55. A mid-2000s expansion of the AGO was designed by what Canadian-American architect, who had previously designed the Guggenheim Museum in Bilbao?

A: Frank **Gehry**

56. What British modernist sculptor names a "Sculpture Centre" at the AGO that features many of his "Reclining Figures"?
A: Henry **Moore**
57. The AGO contains a plaster cast of what sculpture by Auguste Rodin depicting a seated man in deep contemplation?
A: *The **Thinker*** (accept: *Le **Penseur***)
58. The AGO contains *Drowned Land* and *The West Wind*, paintings by what Canadian artist?
A: Tom **Thomson**

Set of 3: Cancer

59. What is the most common childhood cancer? It begins in the bone marrow and is named for the high numbers of white blood cells found in affected individuals.
A: **leukemia**
60. What word, the opposite of "malignant", describes tumours that do not spread?
A: **benign**
61. Many cancers affecting the genital area are attributed to infection by what virus, which the Gardasil 9 vaccine helps prevent?
A: **HPV** (accept: **human papillomavirus**)

Jailbreak

62. Before the Progressive Conservatives ended their political dynasty, what Alberta political party won nine straight majorities between 1935 and 1971?
A: Alberta **Social Credit** Party
63. After drinking the halahala poison, what god's throat turned blue in Hindu myth?
A: **Shiva**
64. What "S"-word refers to leather that has a fuzzy, velvety exterior?
A: **suede**
65. Who awakes to find he has been transformed into a "monstrous vermin" in Franz Kafka's *The Metamorphosis*?
A: **Gregor** Samsa (prompt on: Samsa)
66. What biological pigment is the primary determinant of human eye colour and skin colour?
A: **melanin**
67. What word can mean eagerness and enthusiasm, or the rind of a citrus fruit used as flavouring?
A: **zest**
68. The cities of Terrace, Mission, and Nanaimo are in which Canadian province?
A: **British Columbia** (accept: **BC**)
69. A timpani roll opens the only piano concerto by what composer, who also wrote music for the play *Peer Gynt*?
A: Edvard **Grieg**
70. What mountain range was dominated by the Almohad caliphate in the 12th century?
A: **Atlas** mountains
71. What two-word phrase can refer to a type of spam message meant to be passed on, or a type of armour made from metal rings?
A: **chain mail**
72. What adjective describes foods prepared according to Jewish dietary principles?
A: **kosher**
73. At what value are the Celsius and Fahrenheit temperature scales equal?
A: **-40** degrees Celsius/Fahrenheit

74. A standard sudoku grid has how many cells?
A: **81** cells
75. A red circle overlaid on a green background makes up the flag of what Asian nation?
A: **Bangladesh**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: In what colony did a man on trial for libeling the government give a 6-hour speech defending himself on the principle of free speech? The judge ordered the jury to convict him, but they acquitted him instead.
77. Part 2: This was the first British colony to be granted responsible government. The founder of the Cunard line was born in this colony.
78. Part 3: In the first Canadian general election, most of this province's seats were won by Anti-Confederates.
79. Part 4: Home to Joseph Howe and Charles Tupper, this province joined Confederation along with Ontario, Quebec, and New Brunswick in 1867.
A: **Nova Scotia**

Streak

80. Name up to all six Martin Scorsese films in which Leonardo DiCaprio has appeared.
- A: ***Gangs of New York***
- A: ***The Aviator***
- A: ***The Departed***
- A: ***Shutter Island***
- A: ***The Wolf of Wall Street***
- A: ***Killers of the Flower Moon***

Set of 3: International Languages

83. What letter must be added to the English spelling of the seventh Greek letter to get the English spelling of the second Greek letter?
A: **B**
84. Replacing the earlier Wade-Giles system, what is the current standard for the romanization of the Chinese language?
A: hanyu **pinyin**
85. Writing systems, such as the one used for Arabic, that only write out consonants are known by what word?
A: **abjad** (accept: **abgad**)

Set of 3: Cross-Border Train Services

86. VIA Rail and what other rail operator jointly run the Adirondack, Cascades, and Maple Leaf cross-border routes?
A: **Amtrak** (accept: **National Railroad Passenger Corporation**)

87. Austria's national railway company is the largest European operator of what specific kind of train service, running trains across the continent from its base in Vienna?
A: **sleeper** trains (accept: over**night** trains)
88. International destinations including Ulaanbaatar and Beijing can be reached by branching off from what domestic railway, the longest in the world?
A: **Trans-Siberian** railway/Express

12-Part Blitz

89. What style of Ray-Ban sunglasses rose to prominence during World War II, and has since been featured in the *Top Gun* films and worn by Joe Biden?
A: **aviators**
90. What Mediterranean island was the home of the Minoan civilization?
A: **Crete**
91. In October 2023, what Republican from California became the first US Speaker of the House to be removed during a legislative session?
A: Kevin **McCarthy**
92. Who invented velcro?
A: George de **Mestral**
93. Which logic gate is activated when exactly one of its two inputs is true?
A: **XOR** ["ex-or"] (accept: **exclusive or**)
94. Rappers like Central Cee and DC the Don were included in the 2023 "Freshman Class" of what hip-hop magazine?
A: **XXL**
95. According to a common superstition, what substance should you throw over your left shoulder if you spill some of it?
A: **salt**
96. The North Atlantic Current begins as what other warm ocean current named for its origin south of the United States mainland?
A: **Gulf Stream**
97. The term mahout refers to someone who can train and ride what creatures?
A: **elephants**
98. What animals are considered sacred in Hinduism?
A: **cows** (accept: **cattle, zebu**)
99. What colours give their names to the two main tributaries of the Nile?
A: **blue** AND **white**
100. To downplay his royal status, what official Latin title did Augustus adopt upon becoming emperor?
A: **princeps** civitatis

END OF GAME