



2024-25 High School Qualifier (T2) – Pack 2

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PACK 2

5-Part Blitz

1. What kind of bird “still bravely singing, flies, scarce heard amid the guns below” according to a poem by John McCrae?
A: **lark**
2. What invention was first used for alchemy and fireworks in medieval China, before being adapted for flaming arrows and eventually cannon?
A: **gunpowder** (accept: **black powder**)
3. The Mohs scale ranks the hardness of minerals by testing their ability to resist what process?
A: **scratching** (accept: being **scratched**)
4. Repeated many times in a Jose Feliciano song, how do you say “Merry Christmas” in Spanish?
A: **Feliz Navidad**
5. What kind of financial institution has Canadian examples such as Meridian, Libro, and Coast Capital Savings?
A: **credit unions**

Double Jump

6. Bart Starr, Brett Favre ["farv"], and Aaron Rodgers have all led what team to Super Bowl titles?
A: **Green Bay Packers** (accept either bolded part)
7. Who is the Packers' current starting quarterback, Rodgers's successor?
A: Jordan **Love**

Double Jump

8. In June 2024, what country reinstated a quota system favouring the descendants of veterans from its 1971 liberation war against Pakistan, leading to mass protests?
A: **Bangladesh**
9. Which prime minister of Bangladesh was overthrown during the protests?
A: Sheikh **Hasina**

Set of 4: Famous Dogs

10. A Newfoundland dog named Seaman accompanied what duo on their 1804 to 1806 trip from Missouri to the Pacific Ocean and back?
A: Meriwether **Lewis** AND William **Clark**
11. Given to a border collie named Messi in 2023 for his portrayal of Snoop in *Anatomy of a Fall*, what award has a name that puns on the most prestigious prize at the Cannes Film Festival?
A: **Palm Dog** Award
12. Pembroke Welsh corgis were closely associated with what member of the British royal family, who owned more than 30 between 1952 and 2022?
A: Queen **Elizabeth II** (prompt on: Queen **Elizabeth**)
13. What dog breed were Balltze and Kabosu, best known respectively for the Cheems and Doge memes?
A: **Shiba Inu** (prompt on: **Shiba**)

Jackpot

14. Part 1: The "B" subtype of what magnesium-based molecule can be converted to its "A" subtype by replacing an aldehyde group with a methyl group?
15. Part 2: Analogues of this substance include carotenoids and anthocyanins, whose presence is revealed as levels of this substance drop.
16. Part 3: This biological substance is stored in the membrane of disk-like structures called thylakoids.
17. Part 4: This substance allows plants to convert sunlight into energy, and also gives them their green colour.
A: **chlorophyll**

Set of 3: Soft Drinks

18. What drink has been frequently advertised by a Canadian singer whose last name sounds like that of the drink?
A: **Bubly** Sparkling Water
19. Code Red and Baja Blast are flavours of what soft drink?
A: **Mountain Dew**
20. What brand of soft drink is named for the chemist who was the first to bottle carbonated water?
A: **Schweppes**

5-Part Blitz

21. What is the most populous island in Europe?
A: Great **Britain**
22. Regulations for what activity involve definitions of "closed season" and "open season"?
A: **hunting** (accept: **fishing**)
23. What playwright depicted the Tyrone family in *Long Day's Journey into Night*?
A: Eugene **O'Neill**
24. What is the name for a deep-fried burrito?
A: **chimichanga**
25. What is the deepest lake in North America?
A: **Great Slave** Lake

END OF FIRST QUARTER

SECOND QUARTER

Splits: Mathematical Homonyms & Dance Fads

Mathematical Homonyms

Each answer will be a mathematical term that can have different meanings depending on the context.

26. A line in a triangle that connects a vertex to the midpoint of the opposite side; the middle value in a dataset.
A: **median**
27. A line that just touches a curve at a given point; the trigonometric ratio defined as the opposite divided by the adjacent.
A: **tangent**

28. An apostrophe-like symbol used to denote first derivatives; a number that is only divisible by 1 and itself.
A: **prime**
29. A portion of a circle's circumference; a prefix used for inverse trigonometric functions.
A: **arc**

Dance Fads

30. What dance involves swinging one's arms across from the front of the body to the back and was popularized by its inclusion in *Fortnite Battle Royale*?
A: **flossing** (accept word forms)
31. Lyrics translated as "give your body some joy" from Spanish precede the name of the title dance in the chorus of what 1993 song by Los del Rio?
A: **"Macarena"**
32. What four-letter acronym is spelled out using one's arms in a dance accompanying the biggest hit for the Village People?
A: **YMCA**
33. Originally released by Hank Ballard and the Midnighters, what song and namesake dance were more famously performed by Chubby Checker?
A: "The **Twist**"

Double Jump

34. What fifth-largest island in the world contains Frobisher Bay, where Iqaluit lies?
A: **Baffin** Island
35. Providing access to the Northwest Passage from the Atlantic Ocean, what strait named for an English explorer separates Baffin Island from Greenland?
A: **Davis** Strait

Double Jump

36. In 2023, Amol Rajan succeeded Jeremy Paxman as the host of what British quiz show?
A: **University Challenge**
37. What other British quiz show features contestants taking turns answering trivia questions in sequence to reach a cash target, with one being voted out at the end of each round?
A: *The* **Weakest Link**

Set of 4: Alliterative Terms

38. The letter lambda symbolizes what quantity in astrophysics, sometimes referred to as Einstein's biggest blunder?
A: **cosmological constant**
39. The eleventh of Chopin's *Etudes Opus 25* has what nickname?
A: **Winter Wind**
40. The first twelve-step program for addiction rehabilitation was developed by what organization?
A: **Alcoholics Anonymous** (prompt on: AA)
41. A green outline of a burger is the logo of what fast food chain that expanded to Canada in 2024?
A: **Shake Shack**

5-Part Mystery Link

42. What clade of animals have one kidney in front of the other, rather than side by side, and can open their jaws wide enough to swallow prey larger than their heads?
A: **snakes**
43. In the Big Four sports leagues, players and coaches who win a championship are each given what kind of award as a keepsake?
A: championship/title **ring**
44. What kind of book do the fictional characters Greg Heffley and Bridget Jones both write?
A: **diary** (accept: **journal**)
45. What is equal to half a pint, or eight fluid ounces, in the imperial system?
A: **cup**
46. Many monarchs wear what kind of open-topped crown, often bejeweled and ornamented?
A: **diadem**

4-Part Blitz

47. What rock band won their first two Grammys in 2024 with the song and album *This Is Why*, though they are better known for "Still Into You" and "Misery Business"?
A: **Paramore**
48. What 2001 movie features characters like Clarisse Renaldi, played by Julie Andrews, and Mia Thermopolis, played by Anne Hathaway?
A: *The **Princess Diaries***
49. The biracial ethnic group of what island is mostly descended from Tahitian consorts and sailors who fled to it after the mutiny on the *Bounty*?
A: **Pitcairn** Island
50. What family of woodwind instruments includes the basset horn?
A: **clarinet** family

END OF FIRST HALF

THIRD QUARTER

Splits: Renaissance Art & Pressure

Renaissance Art

51. A convent in Milan contains what mural by Leonardo da Vinci depicting Jesus dining with his apostles?
A: *The **Last Supper***
52. Ancient philosophers surround Plato and Aristotle in what fresco by Raphael?
A: *The **School of Athens***
53. *Madonna with the Long Neck* exemplifies what Renaissance art style that depicts exaggerated perspective and elongated figures?
A: **Mannerism** (accept: **Mannerist**)
54. What sculpture by Michelangelo depicts the Virgin Mary holding the corpse of Jesus Christ?
A: *Madonna della **Pietà***

Pressure

55. Defined as one newton per metre squared, what is the SI derived unit for pressure?
A: **pascal**

56. What gas law states that pressure exerted by a gas is inversely proportional to its volume?
A: **Boyle's Law**
57. Pressure and what other quantity appear on the axes of a phase diagram?
A: **temperature**
58. What physicist gives his name to a principle which states that, due to conservation of energy, increasing the speed of a fluid will decrease its pressure?
A: Daniel **Bernoulli**

Set of 3: Language

59. What word refers to an approach that categorizes different uses of language as either right or wrong, contrasted with descriptivism?
A: **prescriptivism** (accept word forms)
60. What grammatical entities consist of one subject and one predicate, and can be either independent or dependent based on whether or not they can stand alone as a sentence?
A: **clauses**
61. The words "couch" and "foil" contain what linguistic feature, consisting of two vowel sounds that are combined in one syllable?
A: **diphthong**

Jailbreak

62. A red heart with two beady eyes is a logo of what fashion company founded by Rei Kawakubo?
A: **Comme des Garçons** Play (accept: **CDG** Play)
63. The Five Dynasties and Ten Kingdoms period of Chinese history began with the collapse of what dynasty in 907 AD?
A: **Tang** dynasty
64. What term of French origin means carrying a canoe overland to avoid rapids or other hazards on a river?
A: **portage** (accept word forms)
65. What sort of man-made location is the primary setting of the Joshua Jackson-led medical drama *Doctor Odyssey*?
A: **cruise** ship (prompt on: ship, boat)
66. In nearly all programming languages, variable assignment is performed using what character?
A: **equals** sign
67. What mortal in Greek mythology was the lover of both Persephone and Aphrodite?
A: **Adonis**
68. The wealthy landowner Levin's courtship of Kitty is a secondary plot in what novel, whose married main character has an affair with Count Vronsky?
A: **Anna Karenina**
69. What city, nicknamed "the Bride of Xolotlan" ["SHOW-low-tlan"], is the capital of Nicaragua?
A: **Managua**
70. In what modern-day country was the Achaemenid Empire based?
A: **Iran**
71. Who both produced and played the title role in the movies *I*, *Tonya* and *Barbie*?
A: Margot **Robbie**
72. Name either of the four-letter Sanskrit terms used to refer to gods in Hinduism.
A: **deva** OR **devi**
73. The US military occupies thirteen bases on what Japanese island, which gives its name to Japan's southernmost prefecture?
A: **Okinawa** Island

74. Countries that sponsor athletes, tournaments, or leagues in order to distract from wrongdoing are said to be engaging in what practice?
A: **sportswashing**
75. How many guns are fired in a presidential salute in the United States?
A: **21**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: In what year was Elsie Wayne first elected as an MP from Saint John?
77. Part 2: During this year, campaign manager John Tory authorized an infamous ad that asked "is this a Prime Minister?"
78. Part 3: The Bloc Quebecois became the Official Opposition after this year's election, the first in which the Reform Party won seats.
79. Part 4: The Progressive Conservative Party lost all but two of their seats in this year's election, in which Liberal leader Jean Chr tien became prime minister by defeating Kim Campbell.
A: **1993** (prompt on: '93)

Streak

80. Name up to all of the completed full-length novels written by Jane Austen.

A: ***Pride and Prejudice***

A: ***Emma***

A: ***Sense and Sensibility***

A: ***Mansfield Park***

A: ***Persuasion***

A: ***Northanger Abbey***

Set of 3: Footprints

83. What country's Langebaan lagoon was the discovery site of "Eve's footprint", the earliest known footprint of an anatomically modern human?
A: **South Africa**
84. The National Gallery of Art exhibits a famous photograph of what man's footprint in regolith, taken shortly after he became the second person to walk on the Moon?
A: Edwin "Buzz" **Aldrin**
85. Fossilized footprints are also referred to by what Greek word, meaning "track"?
A: **ichnites**

Set of 3: Time

86. What part of a sundial casts the shadow?
A: **gnomon**
87. In what year will 32-bit signed Unix time roll over to negative values?
A: **2038** (prompt on: 38)

88. How many days make up a fortnight?

A: 14 days

12-Part Blitz

89. What shallow plates named for a German physician are used to culture cells?

A: Petri dishes

90. *Sherlock Jr.* and *The General* were silent comedies starring what actor?

A: Buster Keaton

91. What German loanword refers to a situation in chess where every possible move is disadvantageous?

A: zugzwang

92. What city was built on the site of the former Fort Frontenac, and today is home to the Royal Military College of Canada?

A: Kingston

93. What golfer won a record 18 major championships?

A: Jack Nicklaus

94. In which century was China first unified by Qin Shi Huang?

A: 200s BCE (accept: 3rd century BCE)

95. Who wrote the ballets *Petrushka* and *The Firebird*?

A: Igor Stravinsky

96. Who considered the phrase “the present King of France is bald” in his essay *On Denoting*, and worked with Alfred North Whitehead to write *Principia Mathematica*?

A: Bertrand Russell

97. The world’s largest rainforest is named after what river?

A: Amazon River

98. What most populous city on the Shandong peninsula was German-occupied during the early 1900s and names China’s most popular exported beer?

A: Qingdao [“CHING-dow”] (accept: Tsingtao)

99. What genre was most associated with director John Ford and actor John Wayne?

A: Western films/movies

100. What kingdom’s ruler Mvemba a Nzinga was baptized as Afonso I by Portuguese missionaries?

A: Kingdom of Kongo

END OF GAME