



2022-23 High School Winter Qualifier (T2) – Pack 8

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PACK 8

FIRST QUARTER

6-Part Blitz

1. The space between a hockey goalie's legs is referred to by what numerical term?

A: **five-hole**

2. What is the first metal on the periodic table?

A: **lithium** (accept: **Li**)

3. "North America's Trusted Source of News" is the tagline of what Canadian satirical news website?

A: *The **Beaverton***

4. What connection type, developed by Apple in the 1980s, has largely been supplanted by USB?

A: **FireWire**

5. Set on one of Jupiter's moons, what Glen Schofield-directed game was heavily inspired by his previous *Dead Space* series?

A: *The **Callisto Protocol***

6. What 1950s play draws parallels between McCarthyism and the Salem Witch Trials?

A: *The **Crucible***

Set of 4: Igneous Rocks

7. The cooling of what substance forms igneous rocks?

A: **magma** (accept: **lava**)

8. Contrasted with "felsic", what term describes igneous rocks high in magnesium and iron?

A: **mafic**

9. Rapid cooling of lava with minimal crystal growth results in the formation of what black, glassy igneous rock, historically used to make blades?

A: **obsidian**

10. What most common volcanic igneous rock often forms hexagonal columns such as those of Northern Ireland's Giant's Causeway?

A: **basalt**

Set of 4: Philosophy and Communism

11. What political theorist coined the term “vanguard party” in his pamphlet *What Is to Be Done*, and later served as the first head of government of the USSR?

A: Vladimir **Lenin**

12. What philosopher popularized the slogan "from each according to his ability, to each according to his needs," and also wrote *The Communist Manifesto* along with Engels?

A: Karl **Marx**

13. Marx built upon the dialectical method of what earlier German philosopher who wrote *The Phenomenology of Spirit*?

A: Georg Wilhelm Friedrich **Hegel**

14. What philosopher discussed concepts such as cultural hegemony in his *Prison Notebooks*, which he wrote while incarcerated by the Italian fascist regime?

A: Antonio **Gramsci**

Jackpot

15.

Part 1: What person's declaration of their humanity served as one of the first steps towards the creation of a new political system for their country?

Part 2: In the first publicized recording of this person's voice, they asked their people to “endure the unendurable” and “suffer what is unsufferable”.

Part 3: The “chrysanthemum taboo” has made it socially unacceptable to discuss this man's level of involvement in his country's war crimes.

Part 4: This man was the emperor of Japan during World War II.

A: **Hirohito** (accept: **Showa** emperor)

Set of 3

19. What British book publisher's line of classic books is well-known for its simple orange and white cover designs?

A: **Penguin** Books

20. Tux the penguin is the official mascot of what popular open-source operating system kernel created by Linus Torvalds?

A: **Linux**

21. The king penguin Nils Olav is the ceremonial colonel-in-chief of the King's Guard of Harald V, the king of which Scandinavian country?

A: **Norway**

Streaks

22. Name up to all four of the original coaches on season 1 of *The Voice*.

A: Adam Levine, Blake Shelton, Ceelo Green, Christina Aguilera

24. Four US presidents have died of natural causes while still in office. Name up to all of them.

A: William Henry Harrison (accept: W.H. Harrison; prompt on: Harrison), Zachary Taylor, Warren G. Harding, Franklin Delano Roosevelt (accept: FDR; prompt on: Roosevelt)

SECOND QUARTER

Splits: Probability & Wordplay

Probability

For all questions in this category, consider a drawer with five balls, two of which are red. Express your answers as percentages rounded to the nearest whole number.

26. What is the probability of picking a red ball?

A: 40%

27. If that red ball is removed, what is the probability that the next ball is also red?

A: 25%

28. When picking two balls with replacement, what is the probability of picking two red balls?

A: 16%

29. When picking two balls without replacement, what is the probability of picking two red balls?

A: 10%

Wordplay

The letters in these words will not be rearranged besides the letter you are told to add.

30. What letter must be added to a word meaning "completed" to create a word that refers to Spirit, Opportunity, or Curiosity?

A: R (over -> rover)

31. What letter must be added to the word for a wooden flotation device to get a word for a piece of handiwork?

A: **C** (raft -> craft)

32. What letter must be added to a word in the title of a 1980 ACDC album to get another word in the title of that 1980 ACDC album?

A: **L** (back -> black)

33. What letter must be added to a word for a door through a fence to create a verb meaning to shred food into smaller pieces?

A: **R** (gate -> grate)

Set of 3: Female Rappers

34. What rapper sampled gunshots and a cash register in the chorus of her track "Paper Planes"?

A: **M.I.A.**

35. *Playtime Is Over* and *Beam Me Up Scotty* are mixtapes by what Trinidadian rapper who rose to fame with the release of *Pink Friday* and the single "Super Bass"?

A: Nicki **Minaj**

36. What member of The Fugees released "Doo Wop (That Thing)" off her debut solo album that has a name referencing her "miseducation"?

A: Lauryn **Hill**

Set of 4: Romance Novels

37. What novel sees Dr. Urbino and Florentino Ariza vie for the love of Fermina in 19th-century Colombia?

A: **Love in the Time of Cholera**

38. Founded in Winnipeg in 1949, what company is the largest publisher of romance novels in the world?

A: **Harlequin** Enterprises ULC

39. The first to feature baby Renesmee, what sequel to *Eclipse* is the fourth novel in the *Twilight* series?

A: **Breaking Dawn**

40. What aloof-seeming master of Pemberley House is Elizabeth's main love interest in *Pride and Prejudice*?

A: Mr. **Fitzwilliam Darcy** (accept either underlined part)

Set of 4: Molecular Genetics

41. What general term refers to any cell with more than one set of chromosomes?

A: **polyploid** (accept: **polyploidy**)

42. Which nitrogenous base has the heaviest molecular weight and pairs with cytosine in DNA?

A: **guanine** (prompt on: **G**)

43. Okazaki fragments are produced during what process that involves lagging and leading strands?

A: **DNA replication** (prompt on: **replication**)

44. HIV is an example of what type of virus that synthesizes DNA from RNA using reverse transcriptase?

A: **retroviruses**

6-Part Blitz

45. What was the name of Alexander the Great's horse?

A: **Bucephalus**

46. What golfer won the 2020 PGA Championship and the 2021 British Open?

A: Collin **Morikawa**

47. Shown posing next to listings of her code in an iconic 1969 photo, who led the development of the Apollo program's flight software?

A: Margaret **Hamilton**

48. A cartoon captioned "Cow Tools" with no apparent joke is a much-derided entry in what absurdist comic strip by Gary Larson?

A: *The **Far Side***

49. What is the largest lake located entirely within a Canadian province?

A: Lake **Winnipeg**

50. What is the most common active ingredient in nail polish remover?

A: **acetone**

THIRD QUARTER

Splits: Fictional Metals & Pasta

Fictional Metals

51. What metal can be used to craft level 30 armour in *RuneScape 3*? Its name comes from *The Lord of the Rings*, where it is mined by the inhabitants of Moria.

A: **mithril**

52. Black Panther's suit is made of what metal, the primary natural resource of Wakanda?

A: **vibranium**

53. What character wields a sword of "celestial bronze", dubbed Riptide, which he uses to defeat Medusa in *The Lightning Thief*?

A: **Percy** Jackson (prompt on: Jackson)

54. Ingots of what metal can be used to upgrade diamond items in *Minecraft*?

A: **netherite**

Pasta

55. A dish from what country consists of banana ketchup-sweetened tomato sauce and cut hot dogs with spaghetti?

A: The **Philippines**

56. Directly translating to "butterfly", what type of pasta resembles bow ties?

A: **farfalle**

57. Also used to describe thin rice noodles, what type of pasta is thinner than spaghetti and has a name meaning "little worms?"

A: **vermicelli**

58. Invented by its namesake chef in the early 20th century, what dish combines fettuccine with a creamy sauce of butter and Parmesan?

A: fettuccine **Alfredo**

Set of 5: Architecture

59. What century saw Walter Gropius' founding of the Bauhaus School and the creation of the Fallingwater house by Frank Lloyd Wright?

A: **20th** century (accept: **1900s**)

60. What city contains Buckminster Fuller's *Biosphere* and Moshe Safdie's *Habitat 67*, both constructed for Expo 67?

A: **Montreal**

61. What design style is exemplified by the R.C. Harris Water Treatment Plant in Toronto, and by New York's Chrysler Building and Empire State Building?

A: **Art Deco**

62. What name is shared by Frank Lloyd Wright's spiral-shaped museum at the corner of Fifth Avenue and 89th Street in New York City as well as Frank Gehry's museum in Bilbao?

A: **Guggenheim** Museum

63. What general type of product are Mies's "Barcelona", Le Corbusier's "Grand Confort", and the most famous design of Charles and Ray Eames, today manufactured by the Herman Miller company?

A: **furniture** (accept: **chair**, **couch**, **sofa**, **seating**)

Jailbreak

64. Which letter is used to represent strikeouts in baseball?

A: **K**

65. What rock and roll song, famously played by Marty McFly in *Back to the Future*, describes a "country boy" who became a great guitar player? It was one of Chuck Berry's greatest hits.

A: **"Johnny B. Goode"**

66. During a 1992 SNL performance, Sinéad ["shin-AID"] O'Connor tore up a picture of what man?

A: Pope **John Paul II** (accept: Karol **Wojtyla**) (prompt on: Pope **John Paul**, the **pope**)

67. What element makes up 78 percent of the atmosphere?

A: **nitrogen** (accept: **N**)

68. The harmattan is a cool wind that travels over what hot desert, the largest in the world?

A: **Sahara** desert

69. Rejecting the title of "wang", or king, who ruled as the first emperor of China?

A: **Qin Shi Huangdi**

70. Which Taylor Swift album contains songs about a high school love triangle between James, Betty, and the unnamed speaker in "august"?

A: **folklore**

71. What two-letter terminal command on Windows and Linux systems allows the user to change their current working directory?

A: **cd**

72. Pollution is an example of what concept in economics where a third party is indirectly impacted by the actions of other parties?

A: negative **externality**

73. In Greek mythology, what twin sister of Apollo was the goddess of the hunt?

A: **Artemis**

74. Connacht ["KON-ott"], Munster, Leinster, and Ulster are the four traditional provinces that make up what European island?

A: **Ireland**

75. What is the chemical formula for laughing gas, also known as nitrous oxide?

A: **N₂O**

FOURTH QUARTER

Jackpot

76.

Part 1: What country's diverse Middle Belt is home to many Animists? This is by far the most populous member country of ECOWAS ["EE-ko-wahss"].

Part 2: The northern half of this country is home to many rural Hausa and Fulani people.

Part 3: Those northern areas of this country are largely Muslim, while its mostly Christian south is home to the Igbo and Yoruba people.

Part 4: The most populous in Africa, this country contains the metropolis of Lagos and has its capital at Abuja.

A: **Nigeria**

Set of 3: The Northwest Territories

80. What is the largest lake in the Northwest Territories?

A: **Great Bear** Lake

81. Since 2017, the hamlet of Tuktoyaktuk has been connected via highway to what third-largest community in the Northwest Territories?

A: **Inuvik**

82. In what year did the eastern portion of the Northwest Territories split off to form Nunavut?

A: **1999**

Double Jumps

83. What poet wrote the line “Two roads diverged in a yellow wood” in “The Road Not Taken”?

A: Robert **Frost**

84. What other poem did Frost call “[his] best bid for remembrance”? It ends with the repeated line: “And miles to go before I sleep”.

A: **“Stopping by Woods on a Snowy Evening”**

85. Who holds the Guinness World Record for most stunts performed by a living actor? He starred alongside Chris Tucker in the *Rush Hour* movies and is known for his slapstick martial arts style.

A: Jackie **Chan**

86. Chan first starred as Hong Kong detective Chan Ka-Kui in what 1985 blockbuster, which he also wrote and directed, and which went on to spawn 3 sequels, 2 spinoffs and 2 reboots?

A: ***Police Story***

87. Which Byzantine emperor defeated the Ostrogothic Kingdom to reconquer Rome in the sixth century AD?

A: **Justinian I** (accept: **Justinian the Great**) (prompt on: Justinian)

88. Justinian I executed Hypatius following what event, stemming from tensions between the Blue and Green chariot-racing factions?

A: **Nika** riots (accept: **Nika** revolt)

12-Part Blitz

89. Who composed the holiday piece *Sleigh Ride*?

A: Leroy **Anderson**

90. What sport gets its name from a shortening of the word “association”?

A: **soccer**

91. What priestly class is the highest of India’s castes?

A: **Brahmins**

92. What two-word French term describes luxury handmade fashion design?

A: **haute couture**

93. In what case did the United States Supreme Court state that it would not fall under First Amendment rights to shout “fire” in a crowded theatre?

A: ***Schenck v. United States***

94. How many revolutions per minute is the standard for long playing phonograph records?

A: **33 $\frac{1}{3}$** (accept: **33**)

95. In what mountain range would you find the cities of Ollyantaytambo ["oh-yan-tay-TAM-bo"] and Cusco?

A: **Andes** Mountains

96. How many cards are in a euchre ["YOO-ker"] deck?

A: **24**

97. Ammonites are an extinct group of animals in what phylum?

A: **molluscs** (accept: **Mollusca**)

98. What French composer's *Suite bergamasque* contains his famous *Clair de lune*?

A: Achille Claude **Debussy**

99. Barrister and solicitor are types of what job?

A: **lawyer**

100. The most recent Canadian census was taken in what year?

A: **2021**