



GRADWRITE

Contributors:

Asha Basu

Charlotte Bauer

Tai Belke

Tomas Bertovic

Brendan Bridle

Kunaal Chandrashekar

Simon Choist

Amir Dolansky

James Ferrabee

McKenna Gray

Lucas Hall

Zach Higgins

Joyann Hua

Lee Huynh

Susanna Liao

Eva Mandelbaum

Will Marcotte

Nina Nakamura

Eli Nason

Adrian O'Leary

Nathan O'Leary

Stephen Ottewell

Olivia Parisotto

Anna Reso

Matthew Stasiw

Dylan Steptoe

Serena Suleman

Denali Tran-Le

Stefan Vlad

Chris Wang

Chloe Wei

Alvin Yeung

PACK 2

6-Part Blitz

1. Which clef, whose centre is indented on middle C, is used by the viola?
A: **alto** clef
2. What eponymous disorder, caused by an increase in ACTH secretion by the pituitary gland, is also known as hypercortisolism?
A: **Cushing's** disease
3. What art movement, which includes a painting in which the same dog leash is depicted four times, is characterized by an emphasis on technology and dynamism?
A: **Futurism**
4. What ore is left behind after the player uses beds to explode the surrounding netherrack in a common strategy for obtaining netherite?
A: **Ancient Debris**
5. Who was the only woman to ascend *suo jure* ["JU-ray"] to the Habsburg throne?
A: **Maria Theresa**
6. In statistics and probability theory, what does the acronym IID stand for?
A: **independent** and **identically distributed**

Set of 4: Valleys

7. In what Psalm does the speaker claim to "fear no evil" while walking through "the valley of the shadow of death"?
A: Psalm **23**
8. What two letters denote valleys formed primarily by glacial or riverine processes based on their shape?
A: **U AND V**
9. Howard Carter discovered King Tutankhamun's tomb at what archaeological site, which also contains the tombs of over 60 other Egyptian pharaohs?
A: **Valley of the Kings**
10. Vernon and Kelowna are among the cities located in what fertile, wine-producing region of British Columbia?
A: **Okanagan** Valley

Pyramid

11.

Part 1: After a four-year time skip, what television show sees a Wammy's House alumni become the head of a division of the FBI and CIA to follow his deceased elder's footsteps?

Part 2: In an oft-quoted scene, the protagonist of this show secretly places a mini TV inside of a bag of chips while his companion suffers from apple withdrawal.

Part 3: To learn the true name of his archnemesis, this anime's protagonist starts dating Misa Amane ["uh-MAW-nay"], who can see anyone's name using her shinigami eyes.

Part 4: In this anime series, Light Yagami evades L and the Japanese police force while using the title object to kill criminals.

A: **Death Note**

Set of 3: Cyrus the Great

14. Cyrus hailed from what dynasty, which also names the empire he ruled over?

A: **Achaemenid** ["ACK-uh-MEN-id"] dynasty

15. Cyrus's tomb is located at what site in modern Iran, which also served as the capital of the Achaemenid Empire until it was moved to Persepolis?

A: **Pasargadae**

16. What geometric shape names an artifact at the British Museum that details Cyrus's conquest of Babylon?

A: **cylinder**

Double Jump

17. The Cauchy-Peano existence theorem and Picard-Lindelöf theorem both guarantee the existence of solutions to what type of equation, which involves the derivatives of functions with respect to only one variable?

A: **ordinary differential equations** (accept: **ODEs**) (prompt: differential equations, DEs)

18. The standard proof of the Cauchy-Peano theorem relies on what doubly-eponymous result of analysis, which in one form gives the existence of a uniformly convergent subsequence of a sequence of uniformly bounded and equicontinuous functions on a compact set?

A: **Arzelà-Ascoli** theorem (accept: **Ascoli-Arzelà** theorem)

Double Jump

19. What type of tall tree has a name that includes all five of the English vowels exactly once each?

A: **sequoia**

20. What is the shortest English word that includes all five of the English vowels exactly once in alphabetical order?

A: **facetious**

5-Part Mystery Link

21. Who won the 1980 Lou Marsh Award for Canada's top athlete after running 5,373 km for his Marathon of Hope?

A: Terry **Fox**

22. What is the first name of the identified suspect arrested in Altoona, Pennsylvania five days after the death of Brian Thompson, the CEO of UnitedHealthcare?

A: **Luigi**

23. In HTML, what element allows users to navigate from the source document to

another resource?

A: **link** (accept: **hyperlink**; but reveal: **link**)

24. What river in the Great Glen of Scotland shares its name with a lake southwest of Inverness, the dwelling place of a famous cryptozoological creature?

A: River **Ness**

25. Who, in collaboration with Joe Simon, created the first Captain America comics?

A: Jack **Kirby**

All answers are playable characters in *Super Smash Bros.* on N64.

END OF FIRST QUARTER

SECOND QUARTER

Splits: Islands of Canada & Spelling Soups

Islands of Canada

26. Pictou Island is located in what strait, which separates the Canadian mainland from Prince Edward Island?

A: **Northumberland** Strait

27. What island contains the southernmost populated point of Canada?

A: **Pelee** Island

28. What strait separates Cape Breton Island from mainland Nova Scotia?

A: **Canso** Strait (accept: Strait of **Canso**)

29. Iqaluit is located on what island, the largest in Canada?

A: **Baffin** Island

Spelling Soups

30. How would you spell the name of a type of fish soup originating from Marseille ["mar-SAY"], "bouillabaisse" ["BOO-YAH-bess"]?

A: **B-O-U-I-L-L-A-B-A-I-S-S-E**

31. How would you spell the name of a type of ramen broth made from the stock of pork bones, "tonkotsu" ["ton-KOT-soo"]?

A: **T-O-N-K-O-T-S-U**

32. How would you spell the name of a soup originating in India with a name literally meaning "pepper-water", "mulligatawny" ["MULL-uh-guh-TAHW-nee"]?

A: **M-U-L-L-I-G-A-T-A-W-N-Y**

33. How would you spell the name of a thick Italian soup made with vegetables and occasionally with pasta or rice, "minestrone" ["mee-nih-STROE-nay"]?

A: **M-I-N-E-S-T-R-O-N-E**

Set of 3: Explosive Chemistry

34. What portmanteau names a gel-like incendiary mixture of naphthenic and palmitic

acids?

A: **napalm**

35. Explosives that produce deflagrations rather than supersonic detonations are given what name?

A: **low** explosives

36. What functional group can be added eight times to cubane to form a proposed superexplosive, as well as to cellulose to form highly flammable flash paper?

A: **nitro group** (accept: **NO2**)

Set of 4: Hitting the Gym

37. While being held at the Knockaloe internment camp during World War I, a namesake system of mind-body exercises were designed by what German physical trainer?

A: Joseph **Pilates**

38. A word meaning the main group of cyclists in a race provides the name of what company's exercise streaming service?

A: **Peloton** Interactive, Inc.

39. In what mobile game can players battle and catch raid bosses at augmented reality gyms around the world?

A: **Pokémon Go**

40. What demonym is given to an exercise variation in which weight is held below the knees with smaller range of motion instead of lifted from the floor when performing a deadlift?

A: **Romanian**

Double Jump

41. What woman, the only woman to be explicitly named in the Quran, is also the holiest woman in Islam for her role as the mother of Isa?

A: the Virgin **Maryam**

42. What other woman, considered one of the "four ladies of heaven" in Islam alongside Maryam, was the first wife of Muhammad?

A: Sayyidatina **Khadījah** bint al-Khuwaylid

Double Jump

43. What Moroccan-born video game streamer studied at McMaster University before pursuing streaming, becoming the most followed female streamer on Twitch?

A: **Pokimane** (accept: Imane **Anys**)

44. Pokimane is depicted wearing devil horns opposite her haloed co-host LilyPichu in the logo of what podcast?

A: **Sweet n' Sour**

6-Part Linked Set

45. What kind of supernatural beings are the brothers Brokkr and Eitri, who forge items used by Norse gods?

A: **dwarves**

46. In 2006, what celestial body was reclassified by the International Astronomical Union as a dwarf planet?

A: **Pluto**

47. What type of animal is the only one of Disney's "Sensational Six" that does not wear human clothes, Mickey Mouse's pet Pluto?

A: **dog**

48. What city contains Cubitt Town, Millwall, and Canary Wharf on its peninsular Isle of Dogs?

A: **London**

49. What territory serves as the setting for the novels *The Call of the Wild* and *White Fang*, both written by Jack London?

A: **Yukon** Territories

50. What amusement park is home to the tallest, longest, and fastest dive coaster in the world, the Yukon Striker?

A: **Canada's Wonderland** (prompt: Wonderland)

END OF FIRST HALF

THIRD QUARTER

Splits: Precipitation & Rain in Musicals

Precipitation

51. The Tibetan Plateau's arid climate is a result of what meteorological phenomenon, in which areas on a mountain range's leeward side receive significantly less rainfall?

A: **rain shadow**

52. What word in the US refers to precipitation consisting of small ice pellets, and in Canada to precipitation consisting of rain and partially melted snow?

A: **sleet**

53. Contrasted with hail, what form of precipitation forms when snow crystals come in contact with supercooled water droplets, forming a ball that deforms into an oblong cone shape as it falls?

A: **graupel** (accept: **soft hail**)

54. Along with nitrogen oxides, what compound is highly regulated for its role as the most prevalent cause of acid rain?

A: **sulfur dioxide** (accept: **SO2**)

Rain in Musicals

55. In what Broadway showstopper number does Fanny Brice compare the sun to a ball of butter, concluding Act I of *Funny Girl*?

A: **"Don't Rain on My Parade"**

56. What Best Musical winner at the 2024 Tony Awards features an onstage rain storm during its climactic "rumble" between the Socs ["SO-shiz"] and Greasers?

A: *The **Outsiders***

57. Who sings that "a little fall of rain could hardly hurt her now" as she dies in Marius's arms in *Les Misérables*?

A: **Éponine** Thénardier (prompt: Thénardier)

58. Don Lockwood scats, leans off of a lamppost, and tap dances while holding an umbrella in what 1952 Gene Kelly rom-com?

A: ***Singin' in the Rain*** (accept: *Singing in the Rain*)

Set of 4: Feminist Philosophy

59. What proponent of the "lesbian continuum" popularised the concept of compulsory heterosexuality in a 1980 essay?

A: Adrienne **Rich**

60. What philosopher argued that women's apparent inferiority comes from their lack of education in *A Vindication of the Rights of Woman*?

A: Mary **Wollstonecraft**

61. The term "oppositional gaze" was coined by what intersectional feminist, who tried to draw attention away from herself and back towards her work by stylizing her name in lowercase?

A: bell **hooks**

62. Women are described as "the privileged Other" in the *Facts and Myths* volume of what text by Simone de Beauvoir?

A: *The **Second Sex***

Jailbreak

63. What sporting event, whose 2024 iteration marked the first time since 1975 it did not end on the Champs-Élysées ["SHONS-el-ee-ZAY"], crowns its winner with a yellow jersey?

A: **Tour de France**

64. What abstract expressionist created the most expensive painting ever sold by a living artist, *Flag*?

A: Jasper **Johns**

65. Ion exchange, column, and thin layer are types of what procedure, often used to separate components of a mixture?

A: **chromatography**

66. What is the largest Bundesland, or German state, by area?

A: **Bavaria** (accept: **Bayern**)

67. What Hindu god, who names the third day of Diwali, makes up the Tridevi along with Saraswati and Parvati?

A: **Lakshmi**

68. The height of what mountain decreased by around 400 meters after it erupted in

1980, in what was the deadliest volcanic event in US history?

A: Mount **St. Helens**

69. What are the names of the younger couple whom George and Martha entertain in *Who's Afraid of Virginia Woolf*?

A: **Nick** AND **Honey**

70. Jessica Campbell is an assistant coach for what NHL team that plays their home games at Climate Pledge arena and was added to the league in 2021?

A: **Seattle Kraken** (accept either underlined part)

71. Upstream from the Dead Sea and also fed by the Jordan River, what is the lowest-elevation freshwater lake on Earth?

A: Sea of **Galilee** (accept: Lake **Kineret**, Lake **Tiberias**, Lake **Genezareth**)

72. What word for a flirtatious woman names a hyperfeminine fashion aesthetic characterised by lace, pastels, and bows?

A: **coquette**

73. Mala and Carbonara are flavours of what brand of South Korean instant noodle, known for their chicken mascot and spicy flavouring?

A: **Buldak** Ramen

74. Albert Gallatin, Henry Clay, and John Quincy Adams were among the delegates to negotiate what 1814 treaty?

A: The Treaty of **Ghent**

75. An example of X-linked inheritance is what disease found in some descendants of Queen Victoria, in which blood is unable to clot?

A: **hemophilia**

END OF THIRD QUARTER

FOURTH QUARTER

Pyramid

76.

Part 1: What composer was inspired by a scene from *Il noce de Benevento* ["eel NOE-chay de ben-eh-VEN-toe"] in which several characters dance frenetically to write his "Le Streghe" ["lay STRAY-gay"]?

Part 2: A presto intermezzo named for this composer appears in the 16th and 17th sections of Robert Schumann's *Carnaval*.

Part 3: This composer's second violin concerto was adapted into Franz Liszt's "La Campanella".

Part 4: A Rhapsody by Sergei Rachmaninoff ["rak-MAH-nah-noff"] was inspired by this composer's 24 Caprices.

A: Niccolò **Paganini**

Set of 3: Monster High

79. What company owns fashion doll franchises like *Ever After High* and *Monster High*,

but is best known for the *Barbie* doll?

A: **Mattel**, Inc

80. In the 2022 reboot, what half-Taiwanese *Monster High* character wants to practice witchcraft, despite the concerns of her father, Count Dracula?

A: **Draculaura**

81. Jackson and his fire-elemental alter ego Holt are a reference to what two Gothic horror characters?

A: Dr. Henry **Jekyll** AND Mr. Edward **Hyde**

Set of 4: Canada in the 19th Century

82. Bedford Basin was home to what historic Canadian community, largely settled in the mid-1800s by Black Loyalists transported to Nova Scotia?

A: **Africville**

83. Section 91 of what piece of legislation gave the federal government control over Indigenous peoples and their lands as part of securing Canada's status as a Commonwealth nation in 1867?

A: **British North America Act of 1867** (accept: **BNA Act**, **Constitution Act**, 1867)

84. Fighting alongside Louis Riel, who served as the commanding general of Métis troops at the battles of Fish Creek and Batoche?

A: Gabriel **Dumont**

85. In Upper Canada, what name was given to the group of powerful and influential men in the early 1800s who were considered an analogue of the Lower Canadian Château Clique?

A: **Family Compact**

15-Part Blitz

86. Who recited her poem "The Hill We Climb" at Joe Biden's inauguration?

A: Amanda **Gorman**

87. What dynasty ruled France from 987 to 1792?

A: **Capetian** dynasty (accept: **Capet**)

88. What body of water connects the cities of Chongqing ["CHONG-CHING"] and Shanghai?

A: **Yangtze** River (accept: **Yangzi** River, **Changjiang**)

89. What artist portrayed humans being discovered inside of a large clamshell by Raven, as in the Haida creation myth, in a sculpture housed at UBC's Museum of Anthropology?

A: Bill **Reid**

90. What metalloid's presence in stibnite is the source of its chemical symbol?

A: **antimony**

91. In Sweden, reindeer are only permitted to be herded by members of what Indigenous people?

A: **Sámi**

92. The Dictionnaire de l'Académie Française allows "courriel" to be used in place of

what English loanword?

A: **e-mail**

93. Which member of the R&B group Sista later found commercial success with songs like "Get Ur Freak On" and "Work It"?

A: Missy **Elliott** (accept: **Misdemeanor**)

94. After losing by 6 wickets, what defending champions were shockingly knocked out of the group stage in the 2025 ICC Champions Trophy tournament?

A: **Pakistan**

95. What Islamic leader took power after the overthrow of Mohammad Reza Pahlavi in the Iranian Revolution?

A: Ruhollah **Khomeini** (accept: Ayatollah **Khomeini**) (reject: **Khameini**)

96. Small interfering, transfer, ribosomal, and messenger are all kinds of what single-stranded nucleic acids?

A: **RNA** (accept: **ribonucleic acids**)

97. What poem from the Heian period is sometimes used to order the Japanese syllables, since it uses each of them exactly once?

A: *The **Iroha***

98. What planned city, named after the second president of the Philippines, is the country's most populous city?

A: **Quezon City** (prompt: **Q.C.**)

99. Citing traumatic arthritis in his elbow, what youngest elected Hall of Fame pitcher shockingly retired at age 30?

A: Sandy **Koufax** ["KOE-fax"]

100. What is the only SI base unit whose name includes a magnitude prefix?

A: **kilogram** (accept: **kg**)

END OF GAME