



GRADWRITE '24

PACK 2

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5-Part Blitz

1. Which company produces toys such as Polly Pocket, Hot Wheels, and Barbie?

A: Mattel

2. Which Greek god is said to have invented the lyre?

A: Hermes (do not accept or prompt on: Mercury)

3. Which American author wrote *The Andromeda Strain* and *Jurassic Park*?

A: Michael Crichton [CRY-ton]

4. The Nabataeans constructed which UNESCO heritage site located in present-day Jordan?

A: Petra (accept: Raqmu, Raqēmō)

5. Which dinosaur's name translates literally as roof-lizard, referring to the roof tile-like plates along its back?

A: stegosaurus

Set of 4: French Geography

6. With capital at Saint-Denis, what French island gets its name from the French word for a meeting?

A: Réunion

7. Kourou and Cayenne are cities in which overseas département, which gives France land borders with Suriname and Brazil?

A: French Guiana

8. Noumea is the capital of what French territory in the Pacific Ocean, whose name comes partially from a Latin name for Scotland?

A: New Caledonia

9. Which European kingdom shares the Caribbean island of Saint Martin with France?

A: The Netherlands

Pyramid – Who am I?

Given quotes attributed to them, identify the individual.

10. **Clue A:** "I'd as soon write free verse as play tennis with the net down." Who am I?

Clue B: "Some say the world will end in fire, / Some say in ice." Who am I?

Clue C: "Good fences make good neighbors." Who am I?

Clue D: "Two roads diverged in a wood, and I— / I took the one less traveled by."
Who am I?

A: Robert Frost

Set of 4: Blue Sky Studios Movies

11. What series of movies produced by Blue Sky Studios included the characters of Scrat the squirrel, Manny the mammoth, and Sid the sloth?

A: Ice Age

12. Which 2011 Blue Sky Studios movie with a 2014 sequel features a blue bird named Blu as its main character?

A: Rio

13. What Dr. Seuss book was adapted by Blue Sky Studios into a film in which the main character tries to prevent the destruction of a tiny world?

A: Horton Hears a Who

14. Considered to be one of their best movies, what Blue Sky Studios film was adapted from comics by Charles M. Schulz?

A: The Peanuts Movie

Double Jump

15. Acetylsalicylic acid is the scientific name of what common blood thinner usually referred to by a trade name?

A: Aspirin

16. What company coined the name Aspirin and still holds the Canadian trademark for it?

A: Bayer

Double Jump

17. The only country in South America with coastline on both the Pacific and Atlantic, what country is home to the cities of Medellin and Bogota?

A: Republic of Colombia

18. Which Marxist guerilla group involved in the drug trade signed a historic ceasefire with the Colombian government in 2016?

A: **FARC** (accept: **Revolutionary Armed Forces of Colombia, Fuerzas Armadas Revolucionarias de Colombia**)

Mystery Link

19. What is the name of the dog guarding the Hogwarts basement in Harry Potter and the Sorcerer's Stone?

A: **Fluffy**

20. Which 17th century English mathematician invented the difference engine, the first mechanical computer?

A: Charles **Babbage**

21. What bone is found at the end of the spine and is colloquially referred to as the tailbone?

A: **coccyx**

22. What Germanic language is an official language of South Africa, as it descended from the language of Dutch colonizers?

A: **Afrikaans**

23. What South-East Asian country fits the category?

A: **Philippines**

All words contain their first letter doubled elsewhere in the word.

END OF FIRST QUARTER

SECOND QUARTER

Splits: Chemical Bonds and The Inca

Chemical Bonds

24. What type of bond, often creating a crystal lattice structure, involves the transfer of electrons from a metal to a nonmetal?

A: **ionic** bond

25. Which sort of bond is formed from the overlap of p orbitals?

A: **pi** bonds

26. The highly electronegative atoms nitrogen, fluorine, and oxygen form what special type of dipole-dipole attraction when bonded to a namesake atom?

A: hydrogen bond

27. Which quantity, when greater than about 0.4, distinguishes a polar covalent bond from a non-polar covalent bond?

A: Pauling electronegativity

The Inca

28. The Incan Empire spanned a large section of what mountain range?

A: The Andes

29. What name is given to the knotted cords that the Inca used for record keeping?

A: Quipu [KEE-pu]

30. What was the name of the last Sapa Inca, a name that would later be adopted by the leader of an indigenous revolt in Peru?

A: Tupac Amaru II

31. Legendarily established where Manco Capac's golden rod sank into the ground, which city was the capital of the Incan empire?

A: Cuzco

Set of 4: Mathematical Terminology

You will be given the definition of a mathematical term, you give the term.

32. The set of points equidistant from a focus and a directrix, such as the graph of a quadratic polynomial.

A: parabola

33. A trapezoid with equal-length diagonals, or a triangle with 2 equal sides.

A: isosceles

34. A function such that the preimage of every open set is open, or a function always equal to its limit.

A: continuous

35. The ratio of a right triangle's hypotenuse to the side opposite an angle, or the reciprocal of sine.

A: cosecant (accept: csc)

Set of 3: The Columbian Exchange

36. What sexually transmitted disease causes a lesion called chancre and was likely spread from America to Europe as an effect of the Columbian exchange?

A: **syphilis**

37. The Columbian exchange brought what vegetable with scientific name *Solanum tuberosum* to Europe, where it became a staple of Irish cuisine?

A: **potato**

38. What compound found in the bark of the cinchona tree is used by the Quechua as a muscle relaxant, and came to be used as an antimalarial?

A: **quinine** [KWAI-nine]

Double Jump

39. Gifted by the Lady of the Lake in some stories and retrieved from a stone in others, what weapon was legendarily wielded by King Arthur?

A: **Excalibur**

40. On which island, where Excalibur was crafted, was Arthur taken to heal after the Battle of Camlann?

A: **Avalon**

Double Jump

41. Which mathematician and author wrote *The Hunting of the Snark* and *Alice's Adventures in Wonderland*?

A: Lewis **Carroll** (accept but **DO NOT REVEAL**: Charles Lutwidge **Dodgson**)

42. What was Lewis Carroll's full real name?

A: **Charles** Lutwidge **Dodgson**

Linked Set of 6

43. Ed Sheeran sings "we keep this love in" what object that titles that same song?

A: **photograph**

44. Colours are inverted to their complementaries and dark areas appear light in what kind of photograph?

A: **negative**

45. One's complement and two's complement are ways of representing negative numbers in what number system?

A: **binary** (accept: **base two**, but reveal **binary**)

46. What new agent did *Valorant* recently reveal to be non-binary?

A: **Clove**

47. What popular beverage across South Asia is often brewed with cloves, sugar, milk, and black tea?

A: masala **chai**

48. What character criticizes Miles Morales' use of the term "chai tea" in *Spider-Man: Across the Spider-Verse*?

A: **Pavitr Prabhakar** (accept either)

END OF FIRST HALF

THIRD QUARTER

Splits: Who's that Pokémon! and Ludwig van Beethoven

Who's that Pokémon!

Given the National Pokédex number, type, and a Pokédex entry of a Pokémon, give the Pokémon.

49. 0002. Grass-Poison. The bulb on its back grows as it absorbs nutrients. The bulb gives off a pleasant aroma when it blooms.

A: **Ivysaur**

50. 0778. Ghost-Fairy. It wears a rag fashioned into a Pikachu costume in an effort to look less scary. Unfortunately, the costume only makes it creepier.

A: **Mimikyu**

51. 0658. Water-Dark. It creates throwing stars out of compressed water. When it spins them and throws them at high speed, these stars can split metal in two.

A: **Greninja**

52. 0151. Psychic. Its DNA is said to contain the genetic codes of all Pokemon, so it can use all kinds of techniques.

A: **Mew**

Ludwig van Beethoven

53. Beginning with the notes "E - D sharp - E - D sharp," what is the name given to Beethoven's Bagatelle No. 25, a famous solo piano piece?

A: **"Für Elise"**

54. How many symphonies did Beethoven write?

A: **9**

55. Telling the story of Leonore's rescue of her husband Florestan, what was Beethoven's only opera?

A: **Fidelio**

56. What Friedrich Schiller poem gives the lyrics to the fourth movement of Beethoven's 9th symphony?

A: **"Ode to Joy"** (accept: **"An die Freude"**)

Set of 4: Movie Songs

57. What band covered the song "I'm a Believer" for *Shrek 2* after having provided the song "All Star" for the first Shrek movie?

A: **Smash Mouth**

58. Kenny Loggins wrote what title song for a 1984 film in which he tells listeners to "Kick off [their] Sunday shoes?"

A: **"Footloose"**

59. For what film series were the songs "Moonraker," "Live And Let Die," and "Skyfall" written?

A: **James Bond**

60. What movie's soundtrack, with prominent vocals by Whitney Houston on songs such as "I Will Always Love You," has sold the most copies worldwide?

A: *The* **Bodyguard**

Jailbreak

61. What concept has deflationary and correspondence theories and names a "table" used to reason about it?

A: **truth**

62. Which Mexican artist painted the *Detroit Industry Murals* and was married to Frida Kahlo?

A: Diego **Rivera**

63. What is the longest river found entirely in Russia?

A: **Lena** (do not accept challenges for **Volga**)

64. Pedogenesis is the term for the formation of which substance, which comes in types like silt, loam, and clay?

A: **soil** (do not accept: **dirt**)

65. What last name is shared by Lucy, Peter, Susan, and Edmund in *The Lion, The Witch, and The Wardrobe*?

A: **Pevensie**

66. Heinrich Schliemann "uncovered" large sections of the ruins of what Northwestern Anatolian city?

A: **Troy**

67. Which Russian city is home to the Church of the Saviour on Spilled Blood, the Hermitage museum, and the Romanov's winter palace?

A: **St. Petersburg** (accept: **Leningrad**)

68. Which app by Ustwo Games has players guide Princess Ida along paths hidden in optical illusion-containing mazes?

A: **Monument Valley**

69. "In", "around", "from", and "to" are all examples of what part of speech?

A: **prepositions**

70. Which sport has events at Albert Park, Silverstone, and Yas Marina?

A: **Formula 1** (accept: **F1**)

71. Pop, Six, Squish, Uh Uh, Cicero, and Lipschitz are words sung by the 6 merry murderesses of the Cook County Jail in what Tony-winning musical?

A: **Chicago**

72. Maxwell's equations deal with which fundamental force, unifying two forces once considered separate?

A: **electromagnetism** (accept: **electromagnetic** force)

73. J.S. Woodsworth co-founded the Co-operative Commonwealth Federation with which future premier of Saskatchewan?

A: Tommy **Douglas**

END OF THIRD QUARTER

FOURTH QUARTER

Pyramid – What country am I?

74. **Clue A:** My highest peak is Musala, and I am home to the Pirin and Rila mountain ranges. What country am I?

Clue B: My last king, whose rule ended in 1946, became my prime minister in 2001. What country am I?

Clue C: Blagoevgrad, Plovdiv, and Varna are some of my provinces, and my currency is the lev. What country am I?

Clue D: I am a Southeastern European country with capital at Sofia. What country am I?

A: Republic of **Bulgaria**

Set of 4: Social Media

75. A new lower bound on the size of superpermutations was posted by a user on the slash-sci-slash board of which anonymous social media platform, which has been criticized for inciting events like the 2022 Buffalo shooting?

A: **4chan**

76. In October 2021, after being banned from Twitter, Donald Trump founded which right-wing social media platform?

A: **Truth Social**

77. Which Chinese tech company owns social media such as Lemon8, Douyin, and TikTok?

A: **ByteDance**

78. Which subreddit's users initiated short squeezes on the stocks of AMC and GameStop?

A: r/**WallStreetBets**

Streak

79. List up to all four of the most recent Major League Baseball teams to have won a World Series. (accept either city or team name)

A: Texas Rangers
Houston Astros
Atlanta Braves
Los Angeles Dodgers

Streak

80. Pencil and paper ready! List up to all six of the anagrams for the five letters E, O, P, R, and S.

A: pores
prose
repos
spore
ropes
poser

13-Part Blitz

81. Contrasted with Giffen goods, an increase in demand results from an increase in price for what type of luxury good, named for the author of *The Theory of the Leisure Class*?

A: Veblen goods

82. Chatham, Ontario pizzeria owner Sam Panopoulos invented what type of pizza?

A: Hawaiian pizza

83. Trifluvien is the demonym for people from what Canadian city?

A: Trois-Rivières

84. Which Paris building, designed by Richard Rogers and Renzo Piano to have its internal components visible from the outside, is home to the Musee National d'Art Moderne?

A: Centre Pompidou

85. What is the most abundant noble gas in the Earth's atmosphere?

A: argon (accept: **Ar**)

86. J.M.W Turner's *The Golden Bough* depicts a scene from what epic poem by Virgil?

A: The *Aeneid*

87. Holding the Guinness World Record for largest religious site, what temple complex is featured on the Cambodian flag?

A: Angkor Wat

88. What name is given to someone who makes wooden barrels?

A: Cooper

89. Literally meaning fennel, what word names a Greek town about 40 km from Athens and an athletic competition?

A: Marathon

90. Supplanting the Song, which Chinese dynasty was founded by Kublai Khan?

A: Yuan dynasty

91. In 2021, Shawn Mendes announced that he had broken up with what singer of "Havana"?

A: Camila Cabello

92. What is the full name for the class of drugs containing naproxen and ibuprofen, which is abbreviated NSAID [n-said]?

A: nonsteroidal anti-inflammatory drug

93. Who stands with his hand towards the ground next to his teacher pointing up in *The School of Athens*?

A: Aristotle

END OF GAME