



GRADWRITE '24

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PACK 9

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5-Part Blitz

1. Neum is the only seaport on a narrow strip of coast belonging to what Balkan nation?
A: **Bosnia and Herzegovina** (prompt on: Bosnia, Herzegovina)
2. Which inaugural WNBA team lead in points by Breanna Stewart and in assists by Sabrina Ionescu ["yo-NESS-co"] won their first WNBA championship in 2024?
A: New York City **Liberty** (accept: **New York** City Liberty, **NYC** Liberty)
3. What gas makes up 96% of the atmosphere of Venus?
A: **carbon dioxide** (accept: **CO2**)
4. What is the name for the use of words in conjunction with an acronym that uses those words, such as in the phrase "ATM machine" or "PIN number"?
A: **redundant acronym syndrome syndrome** (accept: **RAS syndrome**)
5. Legal requirements to keep windows open during the summer and the nationalization of bacon are among the platform promises of what Canadian political party?
A: **Parti Rhinocéros** Party (accept: **Rhinoceros** Party)

Set of 4: Music Genre Nobility

6. Whose famous rendition of "A-tisket, A-tasket" helped earn her the titles "Queen of Jazz" and "First Lady of Song"?
A: Ella **Fitzgerald**
7. Whose eponymous orchestra released the album King of Swing, in reference to their pianist and bandleader who was the first African-American to win a Grammy?
A: William "Count" **Basie**
8. The "Prince of Darkness" is a nickname given to what English metal singer, known for both his solo career and his tenure as the lead singer of Black Sabbath?
A: John "Ozzy" **Osbourne**
9. What composer, for whom a particular instrument is named, became known as the "American March King" for his works like "The Stars and Stripes Forever"?
A: John Philip **Sousa**

Jackpot

10. Part 1: What city's current walls were constructed under Suleiman the Magnificent between 1537 and 1541, though they have been rebuilt multiple times throughout history?

Part 2: This city is divided into four unequal quarters, the smallest of which belongs to the Armenian church.

Part 3: This city's church of the Holy Sepulchre ["SEH-pul-kur"] is home to an immovable ladder and the traditional site of Golgotha.

Part 4: Part 4: This city's first and second temple were respectively destroyed by the Babylonians and the Romans, leaving only the Wailing Wall.

A: Old **Jerusalem** (accept: Old City of **Jerusalem**)

Set of 3: Bells

11. With a name coming from French, what instrument consists of at least 23 bells played with a keyboard?

A: **carillon** ["CARE-uh-lohn"]

12. To the nearest integer, what percentage of the data lies in one standard deviation of the mean in a Gaussian distribution bell curve?

A: **68%**

13. In what city would you find Independence Hall directly across the street from the Liberty Bell?

A: **Philadelphia**

Double Jump

14. What actor featured in both *Kid Auto Races at Venice*, and *Modern Times*, the first and last films to feature his character the "Little Tramp"?

A: Charlie **Chaplin**

15. What Toronto-born actress founded the United Artists production company along with Charlie Chaplin, Douglas Fairbanks, and

D.W. Griffith, in order to allow actors control over their own films and profits?

A: Mary **Pickford**

Double Jump

16. The city of Carthage began as a colony of what ancient civilization?

A: **Phoenicians**

17. What Phoenician city was renowned across the Mediterranean for its purple dyes, which were made from sea snail secretions?

A: **Tyre**

5-Part Mystery Link

18. What "product" function takes in 2 vectors and gives a third vector orthogonal to both?

A: **cross** product

19. What object that releases aurora-causing CMEs will eventually turn into a red giant?

A: the **sun** (accept: **sol**, **helios**; but reveal: **the sun**)

20. What plant in the genus allium is used in condiments such as al ajillo ["al uh-HEE-oh"] and toum?

A: **garlic**

21. Two of the three events that make up the Triple Crown of horse racing are named after what type of race, in which owners pay a fee to enter a horse?

A: **stakes**

22. What element can be found in its mineral form alongside chlorine in chlorargyrite ["klor-AR-jee-rite"]?

A: **silver** (accept: **Ag**)

Link: All answers are vampire weaknesses.

END OF FIRST QUARTER

SECOND QUARTER

Splits: Celtic Myth & Biological Math

Celtic Myth

23. Sétanta ["SHAY-dan-da"] is the former name of what Irish hero of the Ulster cycle, who got his name from slaying a guard dog?

A: **Cú Chulainn** ["koo KHUL-in"] (reject: **Chulainn**)

24. What landmark in Northern Ireland is named for a myth involving Fionn mac Cumhail ["FIN muh-COOL"] linking it to Fingal's Cave in Scotland for their matching basalt columns?

A: **Giant's Causeway**

25. People are advised to always keep broken shoes in their house, because what kind of Irish mythological cobbler will mend them in exchange for gold coins that they hide at the end of a rainbow?

A: **leprechauns**

26. Featured as a pair of statues in Falkirk, what creature from Celtic myth has reversed hooves and dwells in lakes across the British Isles?

A: **kelpie**

Biological Math

27. In epidemiology, what quantity gives the number of people directly infected by an infectious person over the course of their disease?

A: **R0** (accept: **R nought**, **R zero**, **R sub zero**, **basic reproduction number**)

28. Artichoke florets, pineapples, pine cones, and sunflower seeds all grow in spirals which, when counted, give the numbers of what mathematical sequence?

A: **Fibonacci** sequence (accept: **Fibonacci** numbers)

29. How many distinct codons can be formed from the four basic RNA nucleotides, given that a codon is composed of a three-nucleotide sequence?

A: **64**

30. The limit of a logistic function modelling population size over time, what quantity denoted K is the largest population size that an environment can support?

A: **carrying capacity**

Set of 3: Origami

31. What variation of origami involves making cuts in paper?

A: **kirigami**

32. The one-eyed protagonist of what movie uses his magical shamisen to manipulate origami?

A: ***Kubo and the Two Strings***

33. It is said that how many origami cranes or stars must be folded in order for a wish to be granted?

A: **1000**

Set of 4: Compound Words

34. What word is formed when the element with atomic number 79 is combined with the surname of Jaden, Willow, and Will?

A: **goldsmith**

35. What word is formed when the period when the Sun is below the horizon is combined with an adult female horse?

A: **nightmare**

36. What word is formed when the central organ of the nervous system is combined with a word meaning to clean with a liquid?

A: **brainwash**

37. What word is formed when the rumbling sound during a storm is combined with a door locking mechanism?

A: **thunderbolt**

Double Jump

38. What Italian painter was credited with the creation of a style of chiaroscuro ["KEE-AR-oh-SKOO-roe"] called tenebrism, which he used in his painting The Calling of Saint Matthew?

A: Michelangelo Merisi da **Caravaggio** ["CARE-ah-VAJ-ee-oh"] (accept: Amerighi da **Caravaggio**)

39. In what Caravaggio painting of a Biblical episode do a young widow and her servant decapitate an Assyrian general?

A: ***Judith Beheading Holofernes***

Double Jump

40. At the lowest point of his life, Wolfgang Pauli sought therapeutic help from what psychologist while living in Zürich, Switzerland?

A: Carl **Jung**

41. Through his correspondence with Pauli, Jung developed the idea of what phenomenon, meant to explain seemingly-meaningful connections between acausal events?

A: **synchronicity** (accept: **Synchronizität**)

Linked Set of 6

42. What nickname is given to the actor who played Derek Thompson in *Tooth Fairy*, Luke Hobbs in the *Fast and Furious* franchise, and Maui in *Moana*?

A: Dwayne "The **Rock**" Johnson

43. What would you be asking for in your drink if you ask for it "on the rocks"?

A: **ice** cubes

44. What drivable machine is used in ice-rinks in order to resurface and smooth the ice?

A: **zamboni**

45. In a 2024 music video, who drove around an ice rink on a zamboni for her hit song "greedy"?

A: Tate Rosner **McRae**

46. What flowers are described in the most famous poem of John McCrae's "In Flanders Fields"?

A: **poppy**

47. Wars were fought over the prohibition of what drug that can be made from the dried secretions of the poppy plant?

A: **opium**

END OF FIRST HALF

THIRD QUARTER

Splits: Neurological Disorders & *The Great Gatsby*

Neurological Disorders

48. Relapsing-remitting, primary progressive, and secondary progressive are all types of what autoimmune disease that damages the myelin sheath?

A: **multiple sclerosis** (accept: **MS**)

49. Lou Gehrig and Stephen Hawking both suffered from what disease, where the brain is no longer able to control muscles?

A: **amyotrophic lateral sclerosis** (accept: **ALS**, **motor neuron** disease, **MND**) (prompt on: Lou Gehrig's Disease)

50. First described in 1872 and known for its autosomal dominant inheritance pattern, what disorder causes the neurons in the brain to break down and die?

A: **Huntington's disease** (accept: **Huntington's chorea**, **HD**)

51. Once known as the "falling sickness," what disorder causes a person to experience frequent seizures, often in response to flashing lights?

A: photosensitive **epilepsy**

The Great Gatsby

52. The fictional setting of West Egg is located on what real-world island, whose western portion is a part of New York City making up Brooklyn and Queens?

A: **Long** Island

53. From which character's perspective is *The Great Gatsby* told?

A: **Nick Carraway** (accept either bolded part)

54. What character has an affair with Myrtle, but is married to Daisy Buchanan?

A: **Tom** Buchanan (prompt on: Buchanan)

55. Jordan Baker is a professional player of what sport?

A: **golf**

Set of 4: Triple Alliteration

56. A "cat's game" is the term denoting a tie in what easily solvable children's game?

A: **tic-tac-toe**

57. Temur Khan, the successor of Kublai, had what relationship to Genghis Khan?

A: **great great grandson**

58. The epic film *Birth of a Nation* developed the cross burning and white hood wearing traditions of what hate group?

A: **Ku Klux Klan** (prompt on: KKK, The Klan)

59. J.K. Simmons portrays what fictional editor-in-chief of the Daily Bugle in the Sam Raimi-directed Spider-Man movie trilogy?

A: **J. Jonah Jameson** (prompt on: JJJ, Triple J)

Jailbreak

60. What quantity is displayed as a superscript to the left of the element symbol in nuclear notation?

- A: atomic **mass** number
61. What city bounded by the Pentland hills and the Firth of Forth serves as the capital of Scotland?
A: **Edinburgh**
62. Although it was carried out by M-19 guerillas, who allegedly orchestrated and funded the 1985 Palace of Justice siege as the leader of the Medellin ["meh-duh-YEEN"] cartel?
A: Pablo **Escobar**
63. The Savannah Bananas are an exhibition team that plays what sport?
A: **baseball** (accept: **Bananaball**)
64. In the mid-to-late 19th century, Canada suffered violent "raids" by what militant Irish "brotherhood"?
A: **Fenian** Brotherhood
65. Name either five-letter English word that contains 3 instances of the letter R.
A: **error** OR **rarer**
66. When was the last year that a Canadian team won the Stanley Cup?
A: **1993**
67. The term "survival horror" was first used to describe what game franchise, featuring characters like Rebecca Chambers, Jill Valentine, and Leon Kennedy?
A: **Resident Evil**
68. Located in Abu Dhabi, what is the fastest roller coaster on Earth?
A: **Formula Rossa**
69. What is the SI base unit equivalent of a newton?
A: 1 **kgm/s²** (accept: one **kilogram metre per second squared**, one **kilogram metre per second per second**)
70. What is the only country in the world to not include white, red, nor blue on its national flag?
A: **Jamaica**
71. What philosophical tradition focuses on the practical use of philosophy and was described as "a new name for some old ways of thinking" by William James?
A: **pragmatism**
72. As the property of Warner Bros. Discovery, what does the acronym HBO stand for?
A: **Home Box Office**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

73. Part 1: What musician opened SLAM! charter schools and currently owns the Trackhouse NASCAR team?

Part 2: This musician performed in Kodiak, Alaska after a Walmart-sponsored contest led to a Twitter hashtag "exiling" them there.

Part 3: In their first number 1 single, this musician opens the track with the lyrics "Me not workin' hard? Yeah, right, picture that with a Kodak".

Part 4: This musician is best known for his collaborations on singles like "Timber", "DJ Got Us Fallin' In Love", and "Time of Our Lives", and is also known as "Mr. Worldwide."

A: **Pitbull** (accept: Armando Christian **Pérez**)

Set of 3: Ancient Middle Eastern History

74. As compensation for the territory given up to the Maurya Empire, the Seleucid Empire received 500 of what animal that would be used in the Wars of the Diadochi?

A: war **elephants**

75. Sometimes regarded as the first empire, Sargon founded what empire whose capital has yet to be found, and which conquered Sumer?

A: **Akkadian** Empire

76. The title "King of the Four Corners of the World" was last claimed by what Persian emperor, the conqueror of the Neo-Babylonians and the founder of the Achaemenid ["ah-KEE-mah-nid"] Empire?

A: **Cyrus the Great** (accept: **Cyrus II**)

Streak

77. List up to all of China's Four Great Classical Novels.

A: **Journey to the West** (accept: **Xi You Ji**)

A: **Dream of the Red Chamber** (accept: **Dream of the Red Mansion**, **The Story of the Stone**, **Hong Lou Meng**)

A: **Romance of the Three Kingdoms** (accept: **San Guo Yan Yi**)

A: **Water Margin** (accept: **Outlaws of the Marsh**, **All Men Are Brothers**, **Shui Hu Zhuan**)

Streak

78. List up to the six most recent actors to play Batman in namesake live-action films.

A: Robert **Pattinson**

A: **Ben Affleck** (prompt on: **Affleck**)

A: Christian **Bale**

A: George **Clooney**

A: Val **Kilmer**

A: Michael **Keaton**

13-Part Blitz

79. By over 650,000, what country has the greatest number of lakes in the world?
A: **Canada**
80. What branch of linguistics deals with how humans perceive and produce sounds?
A: **phonetics** (accept: **phonology**)
81. What is the name of the centre circle of the house in curling?
A **button**
82. Ahmedabad is the largest city in what Indian state, which contains the country's westernmost point?
A: **Gujarat**
83. Who sings the lyrics "From the screen, to the ring, to the pen, to the king" and "Always drama when I ring" in his song "Thick of It"?
A: **KSI** (accept: **Olajide** Olayinka Williams **Olatunji, JJ Olatunji, Knowledge Strength Integrity**) (prompt on: **Olatunji**)
84. What scientist's namesake formula was theorized by Niels Bohr to calculate wavelengths on hydrogen's spectral series?
A: Johannes **Rydberg**
85. How many states make up Brazil, also the number of cantons in Switzerland?
A: **26**
86. Six feet is equivalent to what imperial unit of nautical depth?
A: **fathom**
87. *Counter Strike*, *Portal*, and *Half-Life* are games developed by which company that runs Steam?
A: **Valve** Corporation (accept: **Valve** Software)
88. What paralympic event is a relay involving a visually impaired athlete, an amputee athlete, an athlete with cerebral palsy, and a wheelchair athlete?
A: 4x100 **universal** relay (prompt on: **4x100** relay ["four by one hundred relay"])
89. "Pleasant Island" is the former name of what smallest island country?
A: **Nauru**
90. Eiichiro ["AY-chee-roh"] Oda is the mangaka ["MAHN-gah-kah"] behind what long-running series with over 1000 chapters?
A: **One Piece**
91. What country used the drachma as its currency before being replaced by the euro?
A: **Greece** (accept: **Hellenic Republic**)

END OF GAME