



GRADWRITE '24

PACK 4

Head Editor:

Kunaal Chandrashekar

Pack Editor:

Stefan Vlad

Contributors:

Asha Basu

McKenna Gray

Eli Nason

Matthew Stasiw

Charlotte Bauer

Susanna Liao

Adrian O'Leary

Serena Suleman

Kunaal Chandrashekar

Eva Mandelbaum

Nathan O'Leary

Stefan Vlad

James Ferrabee

Simon Mezo

Anna Reso

Chloe Wei

5-Part Blitz

1. Protanomaly [pro-tuh-NOM-a-lee], achromatopsia [ay-kroh-muh-TOP-see-uh], and deuteranopia [doo-ter-uh-NOH-pee-uh] are all types of what condition?

A: **color blindness**

2. What is the most abundant kind of RNA in the cell, which is used in the structure of a namesake organelle?

A: **rRNA** (accept: **ribosomal** RNA)

3. The tallest stepped pyramid in Egypt was constructed by which pharaoh?

A: **Djoser**

4. Which letter is added to the basic trigonometric functions to denote the hyperbolic trig function?

A: **h**

5. What is the name for the metal connector between a pencil and eraser?

A: **ferrule**

Set of 4: Name's the Same

6. What name is shared by the son of Darkseid in the DC comics, and the constellation that contains Rigel and Betelgeuse?

A: **Orion**

7. Which word can refer to both a hard mass formed by minerals within the body, and the branch of mathematics dealing with derivatives and integrals?

A: **calculus**

8. What name is shared by an Italian island in the Tyrrhenian Sea, and a type of pant that is cut off around just above the ankles?

A: **Capri**

9. What word refers to the liberation of man from suffering in many major Indian religions, and is the name of the 20th century band who wrote "Smells Like Teen Spirit"?

A: **Nirvana**

Pyramid – What river am I?

10. **Clue A:** The Peiligang [PAY-lee-gahng] civilization flourished along a tributary of me, and was among the first civilizations to cultivate millet. What river am I?

Clue B: A system of internal deep-water channels that was completed in the 600s connected me to my southern neighbor, which I sometimes used to drain into. What river am I?

Clue C: I am known for frequent flooding and causing many famines throughout history, and I am the second-longest river in my country. What river am I?

Clue D: I am at the heart of China's breadbasket and am often paired with the Yangtze. What river am I?

A: Yellow River (accept: Huáng Hé)

Set of 4: Cognitive Biases

11. Also known as "myside bias," what cognitive bias involves favouring new information that supports one's current beliefs?

A: confirmation bias

12. Which fallacy refers to the decision-making effect where people tend to invest more effort or resources after an initial investment?

A: sunk cost fallacy

13. Recently claimed to be just random noise by Nuhfer et al., which cognitive bias refers to the phenomenon where the least skilled overestimate themselves and the most skilled underestimate themselves?

A: Dunning-Kruger effect

14. Who studied heuristics and biases with Amos Tversky and popularized behavioral economics in his "Thinking Fast and Slow"?

A: Daniel Kahneman

Double Jump

15. What Disney Broadway musical, the sixth to be adapted from an animated movie, featured the songs "Friend Like Me," "A Whole New World," and "Prince Ali"?

A: Aladdin

16. What off-Broadway company produced a parody of Aladdin called *Twisted* as well as the massively successful parody *A Very Potter Musical*?

A: **Starkid**

Double Jump

17. Who wrote about Tom Robinson's defence by Atticus Finch in *To Kill a Mockingbird*?

A: Harper **Lee**

18. Harper Lee was childhood friends turned bitter rivals of what author, the inspiration for Dill in *To Kill a Mockingbird*?

A: Truman **Capote**

Mystery Link

19. In the Bible, who was the mother of Seth and was convinced by the serpent to eat the forbidden fruit?

A: **Eve**

20. Which common error code indicates that the browser could communicate with the server, but the server could not find the requested data?

A: **404**

21. Which technology uses radio waves to determine the position and radial velocity of objects?

A: **radar**

22. Which pop group won the Eurovision song contest with "Waterloo" and is also responsible for songs like "Gimme! Gimme! Gimme" and "Dancing Queen"?

A: **ABBA**

23. Which 5-letter name for a type of boat fits the category?

A: **kayak**

All are palindromes.

END OF FIRST QUARTER

SECOND QUARTER

Splits: Sitcoms of the 2000s and Indian Ocean Islands

Sitcoms of the 2000s

24. Troy Barnes, Britta Perry and Jeff Winger are all characters from what sitcom set at Greendale College?

A: **Community**

25. What actress, who portrays Gloria Delgado-Pritchett on *Modern Family*, has been a judge on *America's Got Talent* since 2020?

A: Sofia **Vergara**

26. Set in Pawnee, Indiana, what sitcom deals with Leslie Knope's job in the title government department?

A: **Parks and Recreation**

27. Featuring a pre-Breaking Bad Bryan Cranston, what sitcom deals with a genius child in a dysfunctional family?

A: **Malcolm in the Middle**

Indian Ocean Islands

28. North Sentinel Island is one of many islands belonging to which Indian island group?

A: **Andaman** Islands

29. Which island, which broke off from the Indian subcontinent between 80 and 90 million years ago, is the largest in the Indian Ocean?

A: **Madagascar**

30. Adam's Bridge formerly connected the Indian subcontinent to what island, which has capitals at Sri Jayawardenepura Kotte [sree jai-ya-WAHR-day-na-poo-rah KOH-tay] and Colombo?

A: **Sri Lanka**

31. Flying Fish Cove is the largest community on what island, south of Java, that is administered by Australia?

A: **Christmas** Island

Set of 4: Spelling -ologies

All answers must be spelled.

32. It refers to the study of fish. Spell: ichthyology [ick-thee-AW-luh-jee]

A: I-C-H-T-H-Y-O-L-O-G-Y

33. An ENT doctor is an expert in this medical specialty. Spell: otorhinolaryngology. [oh-toh-RYE-noh-LAR-in-GOL-uh-jee]

A: O-T-O-R-H-I-N-O-L-A-R-Y-N-G-O-L-O-G-Y

34. Notably practiced by Bela Bartok, it refers to the study of musical culture. Spell: ethnomusicology.

A: E-T-H-N-O-M-U-S-I-C-O-L-O-G-Y

35. Chupacabras, Bigfoot, and the Loch Ness monster might be studied in this field. Spell: cryptozoology.

A: C-R-Y-P-T-O-Z-O-O-L-O-G-Y

Set of 3: Conservative Talk Show Hosts

36. What talk show host voiced The Brain on the TV show *Arthur* from 2000-2001 but is better known for having originated the "change my mind" meme?

A: Steven Crowder

37. At what company do Owen Shroyer, Paul Joseph Watson, and Alex Jones work?

A: Infowars

38. "Fact: rap isn't music. And if you think it is, you're stupid." was famously tweeted by which Jewish talk show host?

A: Ben Shapiro

Double Jump

39. Cranachan, Arbroath smokies, Cullen skink, and haggis are all foods from the cuisine of which UK constituent country?

A: Scotland

40. What fish is found smoked as Arbroath smokies, in a soup in Cullen skink, and along with cod, is one of the most commonly used fish for fish and chips?

A: haddock

Double Jump

41. William Ramsay was a chemist noted for his work in isolating which set of elements, notable for their low boiling points and inertness?

A: **noble gases** (accept: **group 18**)

42. Neil Bartlett discovered some of the first noble gas compounds, which involved the bonding of fluorine with which noble gas?

A: **xenon** (accept: **Xe**)

Linked Set of 6

43. The seat of Travis County, what is the capital of Texas?

A: **Austin**

44. Featuring the mishaps of the title amateur matchmaker, which novel was the last to be published during the lifetime of its author, Jane Austen?

A: **Emma**

45. In the *Beauty and the Beast* 2017 live action remake, which character is played by Emma Watson?

A: **Belle**

46. The central limit theorem involves convergence to what type of distribution, the kind most commonly known as a bell curve?

A: **normal** distribution (accept: **Gaussian** distribution, but reveal **normal distribution**)

47. What is the only Pokémon type that has no effect on Normal types?

A: **Ghost** type

48. Doomed to sail around the Cape of Good Hope, what is the name of the ghost ship originating during the 17th century Golden Age of the Netherlands?

A: **Flying Dutchman**

END OF FIRST HALF

THIRD QUARTER

Splits: Fluid Mechanics and Love Poetry

Fluid Mechanics

49. Which force results from a pressure difference in a fluid and is equal to the weight of fluid displaced by Archimedes' principle?

A: **buoyant** force (accept: **buoyancy**, **upthrust**)

50. Which famous group of problems includes a problem about the existence of smooth solutions to a set of equations describing the motion of viscous fluids, the Navier-Stokes existence and smoothness problem?

A: **Millennium** problems

51. Which term describes the flowing of a liquid up a narrow tube without the assistance of gravity?

A: **capillary action**

52. With units of pascal-seconds, which quantity measures a fluid's resistance to deformation or "thickness", high in fluids like pitch and syrup?

A: **viscosity** (prompt on: **mu**)

Love Poetry

53. Which poet wrote about a "bonnie lass" in his "A Red, Red Rose"?

A: Robert **Burns** (accept: Robbie **Burns**, Rabbie **Burns**)

54. Which Greek poet wrote "Sweet mother, I cannot weave — slender Aphrodite has overcome me with longing for a girl" in one of her many love poems?

A: **Sappho**

55. Which Romantic English poet is known for love poems such as "When We Two Parted" and "She Walks in Beauty", as well as his epic poem "Don Juan"?

A: Lord George **Byron**

56. Who wrote "Tonight I can write the saddest lines" in the penultimate poem of his *Twenty Love Poems and a Song of Despair*?

A: Pablo **Neruda** (accept: Ricardo Eliécer Neftalí Reyes **Basoalto**)

Set of 4: Leonardo Da Vinci

57. Found in the convent of Santa Maria della Grazie, Jesus and his twelve apostles are depicted in which Da Vinci painting?

A: *The Last Supper*

58. Named for the Roman author of *On Architecture*, which Da Vinci drawing depicts the proportions of the human body?

A: *The Vitruvian Man*

59. Literally meaning "the happy one," what other name is given in Italian to Da Vinci's Mona Lisa?

A: *La Gioconda*

60. One of Da Vinci's only other surviving portraits of a woman depicts her holding what small mammal?

A: ermine (accept: stoat)

Jailbreak

61. What country is home to Lake Assal, the lowest point in Africa, and borders Ethiopia, Somalia and Eritrea?

A: Djibouti

62. The Beer-Lambert law states that the absorbance of a solution is proportional to path length, absorptivity, and what quantity, measured in moles per litre?

A: concentration (accept: molarity)

63. What is the name of the system, used to teach the notes of a scale in music theory, that begins "do re mi"?

A: solfège (accept: solfa, solfeo)

64. Which author wrote about Okonkwo and his fictional village of Umuofia in Nigeria in his novel *Things Fall Apart*?

A: Chinua Achebe [uh-CHAY-bee]

65. At a theoretical yield of 100 megatons, AN602, the largest nuclear bomb ever constructed, was known colloquially as what?

A: Tsar Bomba

66. What vehicle was said to have "armour glass" shortly before it was shattered live on stage by a rock by Elon Musk?

A: Tesla Cybertruck

67. What hockey team drafted Regina St. Pats forward Connor Bedard in the 2023 NHL draft?

A: **Chicago Blackhawks** (accept either)

68. How many sheets of paper are in a ream?

A: **500**

69. Which two texts by Snorri Sturluson, named "poetic" and "prose", are the source for much of Norse mythology?

A: the **Eddas** (accept in either order: **Poetic and Prose Eddas**)

70. Thomas Bangalter and Guy-Manuel de Homem-Christo composed which French house music duo that disbanded in 2021?

A: **Daft Punk**

71. Also known as the sideways quark, which quark is found alongside the charm quark in the second generation of elementary particles?

A: **strange** quark

72. In which territory would you find the world's northernmost continuously inhabited settlement, Alert, on Ellesmere Island?

A: **Nunavut**

73. The "Golden Spoon Oration" saw the slandering of what American president of Dutch origin?

A: Martin **van Buren**

END OF THIRD QUARTER

FOURTH QUARTER

Pyramid – What team am I?

74. **Clue A:** I would not have existed if Ted Stepien's original plan to move a team from Cleveland had occurred. What team am I?

Clue B: I was led by a famous pair of cousins in the early 2000s, one of whom is Tracy Mcgrady What team am I?

Clue C: Players for me have included Rudy Gay, Andrea Bargnani, Chris Bosh, and Vince Carter. What team am I?

Clue D: Basketball players RJ Barret and Scottie Barnes currently play for me, and so did Kawhi Leonard before his move to LA from me in Toronto. What team am I?

A: Toronto **Raptors**

Set of 4: Denmark

75. On what island, the largest in the country of Denmark, would you find its capital of Copenhagen?

A: Zealand

76. What Danish existentialist wrote *Fear and Trembling* and *Either/Or*?

A: Søren Kierkegaard

77. What Danish explorer names a sea he explored during a Russian expedition in the 18th century?

A: Vitus Bering (accept: Ivan Ivanovich Bering)

78. Rounded to the nearest day, how long did it take Germany to invade Denmark in World War II?

A: 0 days

Streak

79. Name up to all four capital cities in North America that share a noun in their name with the country in which they are located.

A: Guatemala City
Mexico City
Panama City
San Salvador

Streak

80. Aside from Mario and Luigi, name up to all six of the playable characters in the original Super Mario Kart video game.

A: Princess Peach
Yoshi
Bowser
Donkey Kong Jr. (do not accept: Donkey Kong, Diddy Kong)
Toad
Koopa Troopa

13-Part Blitz

81. What does a funambulist do?

A: **tightrope walk** (accept equal knowledge equivalents)

82. What mythical animal appears, along with a lion, on Canada's coat of arms?

A: **unicorn**

83. What first name is shared by two environmentalists aged 87 and 97, who worked for the CBC and BBC respectively?

A: **David** (Suzuki and Attenborough)

84. Who constructed the large statue of Abraham Lincoln found in the Lincoln Memorial?

A: Daniel Chester **French**

85. Which bongo drum-playing, lockpicking physicist is known for his eponymous quantum diagrams and a widely-read autobiography?

A: Richard **Feynman**

86. Which controversial internet celebrity went viral in 2022 when fans claimed she was to give birth to the reincarnation of Queen Elizabeth II?

A: Trisha **Paytas**

87. Trujillo [true-HEE-oh], Arequipa [ah-ray-KEE-pah], Cajamarca [ka-ha-MAR-ka], and Lima [LEE-ma] are all cities located within which South American country?

A: **Peru**

88. The 50th percentile is equal to what statistic, which is found above half and below half of the data in a dataset?

A: **median**

89. Dolly Parton sings "Please don't steal him just because you can" to what woman in a namesake song?

A: **"Jolene"**

90. In what country are the TV shows *Saving Hope*, *Degrassi*, and *Kim's Convenience* set?

A: **Canada**

91. The headquarters of the African Union are found in what city, the capital of Ethiopia?

A: **Addis Ababa**

92. What name is given in Christianity to the 40 day preparatory period leading up to Easter?

A: **Lent**

93. Liz Truss' tenure as British Prime Minister was outlived by which famous vegetable?

A: Head of **Lettuce**

END OF GAME