



# GRADWRITE '24

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## PACK 4

### Pack Editor:

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### 5-Part Blitz

1. One of the most-used closed-source softwares for music notation, what scorewriter is named for the composer of *Finlandia*?

A: Avid **Sibelius** ["sih-BAU-lee-us"]

2. What astrological sign, represented by a constellation called "the Serpent Bearer", is believed by some to be the 13th sign of the zodiac?

A: **Ophiuchus** ["owe-FYOO-shus"]

3. Which co-founder of Smosh is now well-known for his YouTube series "I spent a day with..."?

A: Anthony **Padilla**

4. What physical quantity can be measured in torr, pascals, or psi ["P-S-I"]?

A: **pressure**

5. Who was tried for treason in 1885 for his role in the North-West Resistance as a leader of the Métis?

A: Louis **Riel**

### Set of 4: Port Cities

6. In what city would you have found the Zuiderzee ["zao-der-ZAY"], now the IJsselmeer ["ay-sull-MEER"], connected to over 100 kilometres of canals?

A: **Amsterdam**

7. With what country is China currently constructing a sea corridor to its port cities of Gwadar and Karachi?

A: Islamic Republic of **Pakistan**

8. What Chilean port city in its namesake region has held the Chilean Navy headquarters since around its independence?

A: **Valparaíso**

9. What city names a variety of wine produced in the Douro valley of northern Portugal?

A: **Porto** (accept: **Oporto**)

### Jackpot

10. Part 1: In mathematics, what character is used to denote a function equal on the natural numbers to the gamma function of  $x + 1$  ["x plus one"]?

Part 2: This character is used to denote alveolar and postalveolar clicks in the International Phonetic Alphabet and in the orthographies for some languages like !Kung ["KOONG"].

Part 3: In many programming languages such as Java, and C, using this character before a statement returns its negation.

Part 4: On a QWERTY keyboard, this character can be typed by holding shift, and pressing the "1" key.

A: **exclamation mark** (accept: **exclamation point**)

### Set of 3: Trumpets

11. What is the most common key for a trumpet to be pitched to?

A: **B flat**

12. Military signals are most often short tunes on what valveless trumpet-like instrument?

A: **bugle**

13. What composer included a distinctive trumpet solo in his 5th symphony, and later placed 4 trumpets offstage for his "Symphony of a Thousand"?

A: Gustav **Mahler**

### Double Jump

14. What myth system is primarily sourced from Skaldic poetry, including the sagas discussed in the *Prose Edda*?

A: **Norse** mythology (accept: **Nordic** mythology, **Scandinavian** mythology)

15. What Icelandic historian and poet is believed to have sourced the information in his Prose Edda from the *Poetic Edda*?

A: **Snorri Sturluson** (accept either bolded part)

### Double Jump

16. Numbers from 0 to 36 are each coloured green, red, or black on the table for what casino game with a French name meaning "little wheel"?

A: **roulette**

17. Often used in roulette, what betting strategy doubles the bet after every loss?

A: **martingale**

### 5-Part Mystery Link

18. What actress got her breakthrough with the role of Trudy Campbell on *Mad Men* before her more recognizable role on *Community* as Annie Edison?

A: Alison **Brie**

19. In Greek mythology, what creature makes up the bottom half of Pan, as well as all other satyrs?

A: **goat**

20. What colour features in the title of a Thomas Gainsborough painting referencing the clothes worn by the central boy?

A: **blue**

21. Ground beef is used rather than lamb in what dish closely related to shepherd's pie?

A: **cottage** pie

22. What demonym is found in the currency of Liechtenstein ["LIK-ten-styne"], as well as that of its own country?

A: **Swiss**

Link: All answers are varieties of cheese.

## END OF FIRST QUARTER

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## SECOND QUARTER

### Splits: Enemies in *Super Mario Bros. Games* & The Normans

#### Enemies in *Super Mario Bros. Games*

23. With bone, fire, and Ptooie variants, what first DLC fighter in *Super Smash Bros. Ultimate* is often found coming out of pipes?

A: **Piranha** Plant (accept: **Piranha** Flower)

24. What series of Mario games features Fever, Chill, and Weird as enemy viruses?

A: **Dr. Mario** (prompt on: **Doctor**)

25. Dry Bones are skeletal versions of what other *Super Mario Bros.* enemy?

A: **Koopa** Troopa

26. First appearing in *Super Mario World*, what black spiky enemies are often found riding tracks in moving platform and mushroom stages?

A: **fuzzy**

#### The Normans

27. Robert Guiscard was the first Norman ruler of what Mediterranean island that sits across the Strait of Messina from mainland Europe?

A: **Sicily**

28. What title was held by the rulers of Normandy from 911 to 1204?

A: **Duke** of Normandy

29. Whose great survey of England was compiled in the Domesday Book following a 1066 conquest?

A: **William I** (accept: **William the Conqueror**, **William the Bastard**)  
(prompt on: **William**)

30. Formally established by Emperor Basil II, Norman mercenaries often fought for the Byzantine Empire alongside what Norse mercenary group?

A: **Varangian Guard** (accept: **Varangians**)

### Set of 3: New Zealand Geography

31. Who names the strait separating the North and South islands of New Zealand, as well as the country's highest mountain?

A: Captain James **Cook**

32. Informally known as the Ditch, what sea can be found between Australia and New Zealand?

A: **Tasman** Sea

33. What main mountain range that runs along the South Island partially shares its name with a European mountain range?

A: **Southern Alps**

### Set of 4: Children's Television

34. Dizzy the cement mixer, Scoop the yellow digger, and Roley the road roller are all construction tools used by what general contractor of children's television?

A: **Bob the Builder** (accept: Robert **McGraw** Jr.) (prompt on: **Bob**)

35. In the 2017 reboot Rides Again, Kate McKinnon plays the younger sister of what iconic science teacher with a famous school bus?

A: Professor Valerie Felicity **Frizzle**, PhD (accept: Ms. **Frizzle**) (reject: **Mrs. Frizzle**)

36. The leader of what group uses the catchphrase "Whenever you're in trouble, just yelp for help"?

A: **Paw Patrol**

37. What former Disney child actress and singer from Good Luck Charlie recently graduated from Harvard Law School and co-founded Northwood Space?

A: Bridgit Claire **Mendler**

### Double Jump

38. Kushinagar, Bodh Gaya, and Sarnath are three of the four sacred sites of pilgrimage in what fourth largest world religion?

A: **Buddhism** (accept: **Buddha Dharma**)

39. Siddhartha Gautama was said to have been born at what fourth sacred place of pilgrimage?

A: **Lumbini**

### **Double Jump**

40. What element is the basis of all organic chemistry, due to its ability to make four stable bonds?

A: **carbon** (accept: **C**)

41. In organic chemistry, what functional group is defined by a carbon with single bonds to an R group and a hydrogen and a double-bond to an oxygen?

A: **aldehyde**

### **Linked Set of 6**

42. Who was the wife of William Shakespeare?

A: Anne **Hathaway**

43. What Christopher Nolan film follows a team of astronauts attempting to find a new home planet for humanity, starring Matthew McConaughey and Anne Hathaway?

A: **Interstellar**

44. What type of planet not gravitationally bound to any star can be found in interstellar space?

A: **rogue** planet

45. What French word, denoting a type of makeup, can be formed by moving just 1 letter in the English word rogue?

A: **rouge** ["ROOJ"]

46. Until 1979, what country was ruled by the brutal Khmer Rouge regime?

A: Kingdom of **Cambodia**

47. Found in Siem Reap, what religious landmark sits within the former capital of the Khmer Empire, which is now in Northern Cambodia?

A: **Angkor Wat**

## **END OF FIRST HALF**

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## **THIRD QUARTER**

### **Splits: DNA & Plays That Inspired Musicals**

#### **DNA**

48. What two scientists name an experiment that used phosphorus labels in bacteriophages to prove that DNA, rather than protein, carries a cell's genetic information?

A: Alfred **Hershey** AND Martha **Chase**

49. What does the initialism DNA stand for?

A: **deoxyribonucleic acid** ["dee-OX-ee-rye-BO-nyoo-CLAY-ic"]

50. Photograph 51 was taken by what scientist, who used X-ray crystallography to decipher the double-helix structure of DNA?

A: Rosalind **Franklin**

51. Guanine and adenine are classified as what kind of nucleotide base which have two closed rings, as opposed to pyrimidines?

A: **purine**

### Plays That Inspired Musicals

52. Lynn Riggs' play *Green Grow the Lilacs* inspired what Rodgers and Hammerstein musical about Laurey and her suitors, Jud and Curly?

A: ***Oklahoma!***

53. What two families inspired the rival Sharks and Jets gangs in the musical *West Side Story*, based on Shakespeare's *Romeo and Juliet*?

A: **Montague** family AND **Capulet** family

54. What playwright wrote about Eliza Doolittle in the play that inspired the musical *My Fair Lady*, *Pygmalion* ["pig-MALE-ee-uhn"]?

A: George Bernard **Shaw**

55. What title character of a Christopher Bond play and a Stephen Sondheim musical goes on a murderous streak in London, killing people in his barbershop with a straight razor?

A: **Sweeney Todd** (accept: **Benjamin Barker**) (accept either underlined part for both)

### Set of 4: The Letter Y

56. What language does the Latin name for the letter y refer to, also lending to the French name "i ["EE"] grec"?

A: **Greek**

57. The letter y can be used as a suffix to form a word of what part of speech?

A: **adjective**

58. What is the NATO phonetic code word for the letter y?

A: **Yankee**

59. What letter is used in the International Phonetic Alphabet to denote the voiced palatal approximant usually written in English with the letter 'y', and is also followed in the writing systems of Scandinavian languages?

A: **j** (accept: **yodd, jodd**)

### Jailbreak

60. Colin Farrell starred in what 2024 HBO DC series, a spin off of Matt Reeves' The Batman?  
A: *The **Penguin***
61. Gus Grissom, Ed White, and Roger Chaffee were killed in a launch rehearsal test for what space mission?  
A: **Apollo 1**
62. From what country does the sport of caber toss originate as an event in the Highland Games?  
A: **Scotland** (accept: **United Kingdom** of Great Britain and Northern Ireland, Great **Britain, UK**)
63. "We Have the Meats" is the current slogan of what American fast food chain?  
A: **Arby's**
64. What body of water separates Madagascar from mainland Africa?  
A: **Mozambique Channel**
65. What two countries did Pope Alexander VI divide the world between in the Treaty of Tordesillas ["tor-day-SEE-yas"]?  
A: **Portugal** AND **Spain**
66. What Irish singer and former member of One Direction released his debut solo album Flicker in 2017, featuring singles "This Town" and "Slow Hands"?  
A: **Niall Horan** (accept either bolded part)
67. What is the expansion of the acronym used in radiology to form pictures of internal structures, MRI?  
A: **magnetic resonance imaging**
68. In February 2021, what country experienced a military coup, deposing the ruling NLD party and its leader Aung San Suu Kyi ["ONG SAHN SUE CHEE"]?  
A: **Myanmar** (accept: **Burma**)
69. In 2016, Mihai Nica strongly solved what board game by proving the optimal strategy was not always a binary search through to eliminate characters?  
A: **Guess Who?**
70. From 1641 to 1854, what city's artificial island of Dejima was the only Japanese city to be open to European traders?  
A: **Nagasaki**
71. An overture from what opera inspired the theme that plays when the power runs out in *Five Nights at Freddy's*, the Toreador March?  
A: **Carmen**
72. The Moho Discontinuity is the boundary found between what two layers of the Earth?  
A: **crust** AND **mantle**

### END OF THIRD QUARTER

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### FOURTH QUARTER

**Jackpot**

73. Part 1: Rick Porcello controversially won the 2016 Cy Young award while playing for what team?

Part 2: In July 2022, various misplays including giving up an inside the park grand slam caused this team to lose a game 28-5?

Part 3: Along with the Toronto Blue Jays, Danny Jansen played with this team to become the first player to play for two teams in the same MLB game.

Part 4: The Green Monster is the main attraction in this team's historic Fenway Park in Boston.

A: Boston **Red Sox** (prompt on: Boston)

### Set of 3: Justice in Philosophy

74. Who proposed their "justice as fairness" principle in A Theory of Justice?

A: John Bordley **Rawls**

75. What philosopher names a theory of labour property coined by Robert Nozick stating that property can be attained from working as long as it leaves "enough and as good" for others, known as his "proviso"?

A: John **Locke**

76. Who said that "injustice anywhere is a threat to justice everywhere" in his "Letter from Birmingham Jail" encouraging people to break unjust laws and take direct action?

A: Martin Luther **King Jr.** (accept: **MLK Jr.**)

### Streak

77. List up to all unique prime factors of the number 154.

A: 2

A: 7

A: 11

### Streak

78. Name up to the 7 most recent people to serve as British monarchs.

A: King **Charles III** (prompt on: Charles)

A: Queen **Elizabeth II** (prompt on: Elizabeth)

A: King **George VI** (prompt on: George)

A: King **Edward VIII**(prompt on: Edward)

A: King **George V** (prompt on: George)

A: King **Edward VII** (prompt on: Edward)

A: Queen **Victoria** (accept: **Alexandrina Victoria**)

### 13-Part Blitz

79. One lumen divided by one square radian gives what SI unit for luminous intensity?  
A: one **candela**
80. Inspired by Sasha Colby, what pop artist introduced herself at Coachella as "your favourite artist's favourite artist"?  
A: Chappell **Roan** (accept: **Chappell** Roan, Kayleigh Rose **Amstutz**)
81. After continually advocating a soft landing and refusing to cut interest rates, who decided for the first time since 2020 to cut them at the Federal Reserve?  
A: Jerome **Powell**
82. Trinidad and Tobago, Jamaica, and Barbados were all members of what political union from 1958 to 1962?  
A: **West Indies Federation**
83. What novel prompted Ruhollah Khomeini to issue a fatwa against Salman Rushdie?  
A: *The **Satanic Verses***
84. What French city, in commemoration of its surrender to the English, commissioned Auguste Rodin to cast its "Burghers" in bronze?  
A: **Calais**
85. Erythrocytes ["uh-RITH-roe-sites"] along with what other component of blood do not contain DNA in a nucleus?  
A: **platelet** (accept: **thrombocyte**)
86. What basic ballet foot position involves the feet shoulder width apart and pointing in opposite directions?  
A: **2nd** position
87. What 1928 novel follows the title character living for centuries after transitioning from a man to a woman, and was written by Virginia Woolf?  
A: ***Orlando: A Biography***
88. In degrees, what is the sum of the interior angles in a hexagon?  
A: **720** degrees
89. Georgists advocate for a tax on which basic factor of production, from which economic rent is derived?  
A: **land**
90. Who provided an ontological proof for the existence of God in his *Discourse on the Method*, in which he also stated "I think, therefore I am"?  
A: René **Descartes**
91. What subsidiary of PepsiCo owns Miss Vickie's, Tostitos, and Doritos?  
A: **Frito-Lay** Inc.

**END OF GAME**