



## 2023-24 High School Qualifier (T3) – Pack 4

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# PACK 4

## 5-Part Blitz

1. What principle named for a 14th-century English friar states that the simplest possible explanation is the most likely to be true?  
A: **Occam's razor**
2. The extremely detailed teeth of what Paradox game's inhabitants were falsely blamed for its high render time and CPU usage when it launched in 2023?  
A: **Cities: Skylines II**
3. What modern-day country is the element gallium named for?  
A: **France**
4. What composer's music plays as Alex undergoes the Ludovico technique in *A Clockwork Orange*?  
A: Ludwig van **Beethoven**
5. Cebuano and Tagalog are among the indigenous languages of what country?  
A: the **Philippines**

## Double Jump

6. What "C"-word describes positive integers that are not 1 and are also not prime?  
A: **composite**
7. What "C"-word describes pairs of positive integers, such as 9 and 14, that do not have any common divisors other than 1?  
A: **coprime**

## Double Jump

8. The band members position their arms to represent letters in semaphore on the cover of what album by the Beatles, whose title track pleads "I need somebody / Not just anybody"?  
A: **Help!**
9. In what song on *Help!* does the singer recall "We said our goodbyes" and "Love was in your eyes" before singing "Treat me like you did" during the title time period?  
A: "The **Night Before**"

## Set of 4: Sets of 4

10. The opening narration of what Nickelodeon show describes how the four nations lived in harmony before the Fire Nation attacked?  
A: **Avatar: The Last Airbender** (prompt on partial answers)
11. Whose fourth wife led the Gang of Four?  
A: **Mao Zedong**
12. What "M"-word is used in swimming to mean a race in which all four competition strokes are swum?  
A: **medley**
13. What religion follows the Four Noble Truths?  
A: **Buddhism**

## Jackpot

14. Part 1: What country's Cacos rebel groups inadvertently got a boost of support when US troops distributed a photo of a Cacos leader in a Christ-like pose after they executed him?
15. Part 2: The death of Napoleon's brother-in-law Charles Leclerc in this country is discussed in the book *The Black Jacobins*.
16. Part 3: Faustin I and Jean-Jacques Dessalines ruled this country as emperors in the 19th century, following a successful slave revolt.
17. Part 4: Toussaint Louverture is considered the father of this country, which shares the island of Hispaniola with the Dominican Republic.  
A: **Haiti**

### Set of 3: -lyte Words

Given a description of a word that ends with the letters L-Y-T-E, identify the word.

18. An assistant to someone, or a follower of a cause.  
A: **acolyte**
19. Someone who has experienced religious conversion.  
A: **proselyte**
20. Sodium or potassium dissolved in water, for example.  
A: **electrolyte**

### 5-Part Blitz

21. Ieyasu ["ee-AY-ah-su"] was the first ruler of what shogunate that ended with the Meiji Restoration?  
A: **Tokugawa** shogunate (accept: **Edo** shogunate)
22. Activist Maulana Karenga created what seven-day long holiday as a celebration of pan-Africanism and African-American culture?  
A: **Kwanzaa**
23. What autonomic process carries a bolus of food down the esophagus?  
A: **peristalsis**
24. What country is using reclaimed land to construct a planned business district called Eko Atlantic City?  
A: **Nigeria**
25. What circuit component stores electrical energy through the buildup of opposite charges separated by a dielectric and has a strength measured in farads?  
A: **capacitor**

## END OF FIRST QUARTER

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## SECOND QUARTER

### Splits: Music Theory & Volcanoes

#### Music Theory

26. What symbol cancels a sharp or flat?  
A: **natural** symbol/sign
27. The first two notes of "O Canada" form what interval?  
A: **minor third** (prompt on: third)

28. What is the submediant of C minor?  
A: **A flat** (reject: A)
29. How many sharps are in the key signature of B minor or D major?  
A: **2**

### **Volcanoes**

30. 'A'a ["ah-ah"] and pahoehoe ["pa-HO-ay-ho-ay"] are two basic types of what substance, distinguished by the presence or absence of rough blocks?  
A: **lava**
31. Before being expelled during an eruption, what word refers to lava inside a volcano?  
A: **magma**
32. What kind of volcano arises not at a plate boundary, but rather in an area of exceptionally warm mantle in the middle of a plate?  
A: **hotspot** volcano
33. What lake in Sumatra lies in the caldera of a supervolcano whose eruption 75,000 years ago may be the largest known to scientists?  
A: Lake **Toba**

### **Double Jump**

34. Roger Chillingworth, Arthur Dimmesdale, and Hester Prynne all appear in what Nathaniel Hawthorne novel?  
A: *The **Scarlet Letter***
35. In the novel, the scarlet "A" that Hester Prynne is condemned to wear for the rest of her life stands for what crime?  
A: **adultery**

### **Double Jump**

36. What city's film industry has produced martial arts stars such as Donnie Yen and Jackie Chan?  
A: **Hong Kong**
37. Donnie Yen plays what Wing Chun master in a namesake Hong Kong martial arts film series, who trains a young Bruce Lee in the series' second installment?  
A: **Ip Man**

### **Set of 4**

38. What institution was formed in response to the 1907 Knickerbocker Crisis and serves as the central banking system of the United States?  
A: **Federal Reserve** system (prompt on: the **Fed**)
39. Which American president presided over the establishment of the Federal Reserve in 1913?  
A: Woodrow **Wilson**
40. Succeeding Janet Yellen in 2018, who is the current chair of the Federal Reserve?  
A: Jerome "Jay" **Powell**
41. Following his appointment as Fed chair in 1979, Paul Volcker successfully countered high inflation by raising what financial quantity to record high levels?  
A: **interest rates** (accept: **overnight lending rate, federal funds rate**)

### **Set of 4: Named for a US State**

Each correct answer will contain the name of a US state.

42. The flop, turn, and river are shared cards in what most popular poker variant?  
A: **Texas hold'em**
43. The name of which state also refers to a lacrosse-style goal in hockey?  
A: **Michigan**
44. 72 inches by 83.5 inches are the dimensions of what size of bed?  
A: **California King** bed/mattress
45. Harland Sanders founded what fast food chain?  
A: **Kentucky Fried Chicken** (prompt on: KFC)

### Linked Set of 5

46. Who was married to Dalton Gomez from 2021 to 2023?  
A: Ariana **Grande**
47. The Weeknd sings "I make you cry when I run away" on what single from *After Hours*, which was remixed by Ariana Grande?  
A: **"Save Your Tears"**
48. What video game series had a 2023 instalment called "Tears of the Kingdom"?  
A: *The Legend of **Zelda***
49. What is the largest real-world country whose currency shares a name with that used in *The Legend of Zelda*, rupees?  
A: **India**
50. What massive bay makes up the entire east coast of India?  
A: Bay of **Bengal**

### END OF FIRST HALF

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### THIRD QUARTER

#### Splits: National Birds & Artistic Muses

##### National Birds

51. What corvid, notorious for stealing food from campsites, is the unofficial national bird of Canada?  
A: **grey jay** (accept: **Canada jay, whiskeyjack**)
52. In 1932, what country started a nuisance wildlife management program by declaring "war" on their national bird, the emu?  
A: **Australia**
53. What island nation's shape is often compared to that of its national bird, the Raggiana bird-of-paradise?  
A: **Papua New Guinea**
54. The Old English word for "white" contributed to the name of what bird of prey, the national bird of the United States?  
A: **bald eagle**

##### Artistic Muses

55. German immigrant Helga Testorf was the subject of many paintings by what American painter, who also depicted Anna Olsen in *Christina's World*?  
A: Andrew **Wyeth**

56. French artist Dora Maar was a muse and romantic partner for what artist, whose progress on *Guernica* she chronicled in photographs?  
A: Pablo **Picasso**
57. Elizabeth Siddall is remembered for posing for many artists from what movement, including William Holman Hunt and Dante Gabriel Rosetti?  
A: **Pre-Raphaelite Brotherhood** (prompt on: PRB, Pre-Raphaelites)
58. Despite serving as his model, original works by Victorine Meurent beat out the entries of what artist of *Luncheon on the Grass* and *Olympia* for inclusion in Paris's 1876 juried exhibition?  
A: Edouard **Manet** (reject: Monet)

### Set of 3: Mosquito-Borne Diseases

59. What mosquito-borne disease is named for the jaundice symptoms it causes?  
A: **yellow fever**
60. The *Plasmodium* parasite causes what disease that can be treated with quinine?  
A: **malaria**
61. In the mid-2010s, outbreaks of what virus in South America caused babies to be born with underdeveloped brains?  
A: **zika** virus

### Jailbreak

62. What Canadian actor was diagnosed with Parkinson's disease in 1991? He is known for portraying Marty McFly in the *Back to the Future* films.  
A: Michael J. **Fox**
63. What name is given to zombie-like mobs that spawn in deserts in *Minecraft*?  
A: **husks**
64. What scientist lends his name to a quantity signifying the ratio between stress and strain, and an 1802 experiment that helped prove the wave theory of light?  
A: Thomas **Young**
65. First and last name required: Anne Bronte originally published her works under what pseudonym?  
A: **Acton Bell**
66. What Greek deity was said to have emerged wearing a full suit of armour from her father's forehead?  
A: **Athena**
67. What 2020 novel follows Lucy Gray Baird and her mentor Coriolanus Snow six decades before the events of the *Hunger Games* trilogy?  
A: *The **Ballad of Songbirds and Snakes***
68. What city is home to Batman?  
A: **Gotham** City
69. Bucephalus was a horse belonging to what historical figure?  
A: **Alexander the Great** (accept: **Alexander III** of Macedon) (prompt on: Alexander)
70. How many fundamental foot positions are there in ballet?  
A: **five**
71. What function is the reciprocal of the sine function?  
A: **cosecant** function (accept: **csc** function)
72. At what chain could one order a Pike Place medium roast or a frappuccino?  
A: **Starbucks**
73. Name any of the three countries whose crowns were joined under the Kalmar Union.  
A: **Sweden** OR **Denmark** OR **Norway**
74. What is the female equivalent of neutering an animal?  
A: **spaying** (accept word forms)

75. In what country is Ben Nevis the highest mountain?  
A: **United Kingdom** (accept: **UK**, Great **Britain**, **Scotland**)

### END OF THIRD QUARTER

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### FOURTH QUARTER

#### Jackpot

76. Part 1: A 1979 commercial for what product shows "Mean" Joe Greene saying "Hey, kid, catch!" to a young boy?
77. Part 2: The finale of *Mad Men* ends with a commercial for this item that features the song "I'd Like to Teach the World to Sing," known as the "Hilltop" commercial.
78. Part 3: A reformulation of this product in 1985, whose name was prefixed with "New", was a commercial failure.
79. Part 4: John Pemberton invented this soft drink that most often uses red and white branding.  
A: **Coca-Cola** (accept: **Coke**)

#### Streak

80. Name up to all five of the active NHL players who have scored 60 or more goals in a single season.
- A: Alexander **Ovechkin**
- A: Steven **Stamkos**
- A: Auston **Matthews**
- A: Connor **McDavid**
- A: David **Pastrnak**

#### Streak

83. Name up to any three of Africa's four most populous countries.
- A: **Nigeria**
- A: **Egypt**
- A: **Ethiopia**
- A: **Democratic Republic of the Congo** (accept: **DRC**) (prompt on: the **Congo**)

#### Set of 5: Latin Phrases

84. A common mantra in Stoic philosophy and associated with the image of a skull, what imperative Latin phrase asks one to anticipate or meditate upon their inevitable death?  
A: **memento mori**
85. Typically found in the programs of theatrical productions, what Latin term refers to the characters of a play?  
A: **dramatis personae**
86. Often used to refer to "man on the street" interviews, what Latin term refers to the "voice of the people"?  
A: **vox populi**
87. Associated with the "nature" side of the "nature vs. nurture" spectrum, what Latin term is used in English to refer to people being born as a "blank slate", devoid of any innate knowledge?  
A: **tabula rasa**

88. What Latin phrase translates to "solid earth" in English?

A: **terra firma**

### 12-Part Blitz

89. In 2022, what singer announced that she had been diagnosed with stiff-person syndrome?

A: Céline **Dion**

90. What mountain range contains Mount Robson and runs through Banff National Park?

A: **Rocky** Mountains (accept: The **Rockies**)

91. What "C"-word refers to an employee who has been appointed to assist with games at gambling tables, such as with the distribution of bets?

A: **croupier**

92. Emma Corrin stars as a detective in Iceland on what miniseries?

A: A **Murder at the End of the World**

93. What king was deposed in 1952 by forces loyal to Mohammad Naguib and Gamal Abdel Nasser?

A: King **Farouk** I

94. What part of a camera quickly opens and closes to allow a photo to be taken?

A: **shutter**

95. The invasion of the Sea Peoples contributed to the collapse of what historical period, which was succeeded by the Iron Age?

A: **Bronze Age**

96. In the 1920s, Canadian Leslie McFarlane used the pseudonym Franklin W. Dixon to write what series of books about a pair of teenage detectives?

A: **Hardy Boys** *Mystery Stories*

97. Two separate Mongol fleets were destroyed by typhoons while attempting invasions of what country?

A: **Japan**

98. More commonly used in the UK, what "B"-word describes clothing custom-made for a specific person?

A: **bespoke**

99. The study of the formation and evolution of Earth's landforms is known by what word?

A: **geomorphology**

100. The Indonesian language is a variant of what broader language?

A: **Malayan**

**END OF GAME**