



## 2023-24 High School Championship (T4) – Pack 12

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# PACK 12

## 5-Part Blitz

1. What principal alkaloid found in cacao is the reason chocolate is poisonous to dogs?  
A: **theobromine** (accept: **xantheose**)
2. Severny and Yuzhny Islands make up what archipelago, the largest on Russia's side of the Arctic Ocean?  
A: **Novaya Zemlya**
3. An oft-noted distinction between Canadian and American culture is whether people remove what clothing items when entering a home?  
A: **shoes** (accept: **boots, footwear**)
4. An angle bracket followed by what letter is used for hyperlink tags in HTML?  
A: **A**
5. What capital of Karnataka is the hub of high-tech business and research in India?  
A: **Bangalore** (accept: **Bengaluru**)

## Double Jump

6. What city-state was ruled for a time by the Draconian constitution, which eventually failed to suppress class conflict and was followed by the development of democracy?  
A: **Athens**
7. Athenian democracy began to develop under what early-6th-century BC ruler, who repealed the Draconian constitution, established citizen's assemblies, and forgave debts?  
A: **Solon**

## Double Jump

8. Postgres ["POST-gress"] is one of many database management systems that use what most popular database language?  
A: **SQL** ["sequel" or "S Q L"] (accept: **Structured Query Language**)
9. What adjective describes database languages like SQL that organize data into tables of rows and columns?  
A: **relational**

## Set of 4: Visions

10. What word can refer to an unexpected vision of a ghostlike figure, and is preceded by "marian" when referring to a vision of the Virgin Mary?  
A: **apparition**
11. According to recent studies, only 35% of adults have what kind of vision, indicative of normal visual acuity?  
A: **20/20** vision
12. The town of Westview, New Jersey is the setting for what miniseries, the first television series centring on characters from the Marvel Cinematic Universe?  
A: **WandaVision**
13. Macbeth has a vision of what kind of weapon shortly before using one to kill Duncan?  
A: **dagger** (prompt on: **knife**)

## Jackpot

14. Part 1: From 2002 to 2022, what company sold the FCX line of hydrogen fuel cell-powered cars?
15. Part 2: This company developed the V-TEC system to improve the efficiency of its engines.
16. Part 3: This company's offshoot luxury division, which sells models like the TLX, RDX, and Integra, is called Acura.
17. Part 4: This Japanese car manufacturer sells the Accord and Civic models.  
A: **Honda**

## Set of 3: National Flags by Symbolism

Given a description of the meaning of a national flag, name the country.

18. A stripe on the left to represent Catholics, a stripe on the right to represent Protestants, and a stripe in the middle to represent peace between them.  
A: Republic of **Ireland**
19. A sky over fields of wheat.  
A: **Ukraine**
20. A symbol with two parts that represent positive and negative cosmic forces in balance, surrounded by four trigrams representing universal concepts.  
A: **South Korea** (accept: **Republic of Korea, ROK**)

## 5-Part Blitz

21. What USC product is expected to be taken in the late first or second round of the upcoming NBA draft, possibly by a team hoping to lure his father to sign as a free agent?  
A: **Bronny James** (prompt on: **James, Lebron Jr.**) (accept: Lebron **James Jr.**)
22. Numbers from "zero one" to "three six" are used to designate what type of infrastructure, which may be approached using an instrument landing system?  
A: **runway**
23. A drink that is classified as 40 proof is what percentage alcohol by volume?  
A: **20** percent
24. The log of the reactant concentration over time is a negatively sloped linear relation for chemical reactions of what order?  
A: **first** order (accept: order **one, unimolecular**)
25. If an event has odds of 1 to 4, what is the percentage probability that it will happen?  
A: **80** percent

## END OF FIRST QUARTER

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## SECOND QUARTER

### Splits: '80s Music & Operatic Characters

#### 80s Music

26. An iconic saxophone riff and the refrain "I'm never gonna dance again" appear on what song by George Michael?  
A: **"Careless Whisper"**

27. What band bless the rains in the title place on their song "Africa"?  
A: **Toto**
28. An urban legend states that a drowning incident inspired what Phil Collins song that pioneered the gated reverb drum sound?  
A: **"In the Air Tonight"**
29. What genre of funk- and disco-inspired music from 1980s Japan is characterized by songs like Mariya Takeuchi's "Plastic Love"?  
A: **city pop**

### Operatic Characters

30. Act 3 of Wagner's *Gotterdammerung* contains a prominent funeral march for what character?  
A: **Siegfried**
31. What is the occupation of the character who repeatedly sings "en garde" while making a toast in George Bizet's *Carmen*?  
A: **toreador** (accept: **bullfighter, matador, torero**)
32. What Greek mythical figure is the main character of Christoph Willibald Gluck's first reform opera, as well as Claudio Monteverdi's first opera, the oldest still performed today?  
A: **Orpheus** (accept: **Orfeo**)
33. What character sings the aria "News has a kind of mystery" upon arriving in China in an opera by John Adams?  
A: **Richard Nixon** (prompt on: Nixon)

### Double Jump

34. Known as the "bard of the Yukon", who wrote narrative poems about the shooting of Dan McGrew and the cremation of Sam McGee?  
A: Robert **Service**
35. "The Shooting of Dan McGrew" and "The Cremation of Sam McGee" were both published in what poetry collection by Service, an immediate success that by now has sold over 3 million copies?  
A: ***Songs of a Sourdough***

### Double Jump

36. Stupendous Man and Spaceman Spiff are alter egos of what six-year-old comic strip character who has a stuffed tiger named Hobbes?  
A: **Calvin**
37. Which of Calvin's alter egos is a film noir-style private eye, often drawn in high contrast with dark shadows and giving a voiceover-style monologue?  
A: **Tracer Bullet** (accept either bolded part)

### Set of 4

38. What game was played at the Candidates tournament held in Toronto in April, by competitors like Ian Nepomniachtchi ["nee-POAM-nya-shee"] and Hikaru Nakamura?  
A: **chess**
39. Three of the 8 competitors at the Candidates represented what country, including the winner, Gukesh?  
A: **India**
40. By winning the Candidates tournament, Gukesh earned the right to play a match against what current world chess champion for the title?  
A: **Ding Liren**

41. Name either the winner of the Women's Candidates Tournament, or the current world champion whom she will face in the final, both of whom represent China.  
A: **Tan** Zhongyi OR **Ju** Wenjun

#### Set of 4: Lines of Succession

42. In third position, who is currently the closest female royal to the front of the line of succession to the British throne?  
A: Princess **Charlotte** of Wales (accept: **Charlotte**, Princess of Wales) (prompt on: the Princess of Wales)
43. Kiefer Sutherland played Thomas Kirkman in what thriller TV series, titled for an official in the presidential line of succession who deliberately skips a large gathering in case of a wide-scale attack on the government?  
A: ***Designated Survivor***
44. Who has ranked behind Kamala Harris in the American presidential order of succession since October 2023, when he was elected to succeed Kevin McCarthy?  
A: Mike **Johnson**
45. What character speaks the line "I love you, but you are not serious people" to his four adult children on the TV show *Succession*?  
A: **Logan** Roy (prompt on: Roy)

#### Set of 5: Medieval Africa

46. The trading city states on the eastern coast of Africa were collectively named for what language?  
A: **Swahili**
47. Soapstone birds adorn what ruined city, located in a modern country that partially shares its name?  
A: **Great Zimbabwe**
48. In 1270, the Solomonic dynasty took control of what empire, which dominated the interior of the Horn of Africa?  
A: **Ethiopian** Empire (accept: **Abyssinia**)
49. Who abolished the Fatimid Caliphate when he founded the Ayyubid Sultanate in modern-day Egypt? This man would go on to win the battle of Hattin and reclaim Jerusalem.  
A: **Saladin**
50. Sundiata founded what empire, which conquered the Ghana Empire and was later surpassed by the Songhai Empire in West Africa?  
A: **Malian** Empire

### END OF FIRST HALF

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### THIRD QUARTER

#### Splits: Historical Correspondence & Spelling

##### Historical Correspondence

51. What government project originated in a letter sent by Leo Szilard and Albert Einstein to Franklin Delano Roosevelt in 1939?  
A: **Manhattan** Project
52. What correspondence detailed a possible offer of American territory in exchange for Mexico invading the United States in World War I, and is commonly named for the German diplomat who wrote it?  
A: **Zimmermann Telegram**

53. Whose wife burnt many of the letters he'd written to her after he confessed to infidelity in the Reynolds Affair?  
A: Alexander **Hamilton**
54. What historical figure repeatedly addressed Adolf Hitler as a friend in a 1939 letter urging Hitler to avoid war?  
A: **Mahatma Gandhi** (accept: **Mohandas Gandhi**) (prompt on: Gandhi)

### Spelling

55. A member of the tribe commanded by Achilles during the Trojan war: spell Myrmidon ["MURR-mid-on"].  
A: **M-Y-R-M-I-D-O-N**
56. To bring someone back from an unconscious state: spell resuscitate.  
A: **R-E-S-U-S-C-I-T-A-T-E**
57. Crafty dexterity, such as with one's hands in magic: spell sleight ["slight"].  
A: **S-L-E-I-G-H-T**
58. An intermediate floor between two taller floors of a building which is open to the floor below: spell mezzanine.  
A: **M-E-Z-Z-A-N-I-N-E**

### Set of 3: Self-Portraits

59. A drawing of an elderly bearded man with red chalk on paper is thought to be a self-portrait of what Renaissance painter?  
A: **Leonardo da Vinci** (accept either bolded part)
60. What artist created almost one hundred self-portraits, including over 40 paintings, from the late 1620s until a few months before his death in late 1669?  
A: **Rembrandt van Rijn** (accept either bolded part)
61. In his self-portraits painted in Saint-Rémy, what artist only depicted himself from the left side, preventing his mutilated ear from being seen?  
A: Vincent **van Gogh**

### Jailbreak

62. What English phrase does Xi Jinping supposedly sound like he says in a viral two-second clip from his 2021 New Year's address?  
A: **wazzup Beijing** (accept: **what's up, Beijing**)
63. The product of pressure and what property remains constant for a gas at constant temperature, according to Boyle's Law?  
A: **volume**
64. What two-word title was given to a novel about the lack of communication between English- and French-speaking Canadians, written by Hugh MacLennan?  
A: **Two Solitudes**
65. What kind of particles carry the colour charge of the strong nuclear force that keeps protons or neutrons together?  
A: **gluons**
66. A muezzin traditionally issues the Muslim call to prayer from what kind of tower built into or adjacent to a mosque?  
A: **minaret**
67. Using a colour one or two shades darker than your skin colour on areas like the hollows of the cheeks and sides of the nose is part of what makeup technique that seeks to define facial structure?  
A: **contouring**

68. In what city's namesake Thrilla was Joe Frazier defeated by Muhammad Ali?  
A: **Manila**
69. What body of water separates Uruguay from Buenos Aires?  
A: **River Plate** (accept: **Rio de la Plata**)
70. What kind of diplomatic office usually focuses on fostering trade and helping its country's citizens, and may be located in cities that are not the host country's capital?  
A: **consulate**
71. To the nearest tenth, how many pounds are in one kilogram?  
A: **2.2** (accept: **two and two tenths**)
72. Who asked "What rough beast, in its hour come round at last, Slouches towards Bethlehem to be born" in his poem "The Second Coming"?  
A: W.B. **Yeats** ["yates"]
73. How many different Tetrominoes are used in the standard version of Tetris?  
A: **7**
74. What explorer led the first voyage ever to cross the Antarctic Circle, was the first European to circumnavigate New Zealand, and was the first European to reach Hawai'i, where he was killed?  
A: Captain James **Cook**
75. The traditional Walpurgis night celebrations come before what day of the year, also celebrated as International Workers Day?  
A: **May Day** (accept: **May 1st**)

#### END OF THIRD QUARTER

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#### FOURTH QUARTER

##### Jackpot

76. Part 1: What country produced a film in which the lead character rescues a baby from a burning mill, shouting "this baby is me!"?
77. Part 2: A director from this country hired archers to shoot real arrows at the lead actor for a film inspired by *Macbeth* and entitled *Throne of Blood*.
78. Part 3: A movie from this country, which was partly inspired by the short story "In a Grove", centres around four conflicting testimonies of a murder in the woods. Other films from this country were remade into the Westerns *A Fistful of Dollars* and *The Magnificent Seven*.
79. Part 4: Villagers threatened by bandits hire the seven title warriors to defend themselves in a film from this country directed by Akira Kurosawa, entitled *Seven Samurai*.  
A: **Japan**

##### Streak

80. Name up to any five of the mayors of Canadian cities that have an NHL team.

A: Olivia **Chow**

A: Valérie **Plante**

A: Ken **Sim**

A: Mark **Sutcliffe**

A: Jyoti **Gondek**

A: Amarjeet **Sohi**

A: Scott **Gillingham**

## Streak

83. Identify up to every root of the function  $Y$  equals  $X$  cubed minus  $7X$  squared plus  $12X$ .

A:  $X$  equals **0**

A:  $X$  equals **3**

A:  $X$  equals **4**

## Set of 5: Word Ladder

The answer to each question will be a word that differs by one letter from the previous answer. All words will be four letters long.

84. An archaic exclamation meaning "listen closely".

A: **hark**

85. The object depicted on the coat of arms of Ireland.

A: **harp**

86. A piece of canvas used to protect something from the elements.

A: **tarp**

87. A small mountain lake formed by a glacier.

A: **tarn**

88. A type of seabird, the "Arctic" variety of which is known for its long migratory distance.

A: **tern**

## 12-Part Blitz

89. Taylor Swift and Matty Healy declare that who should be a bigger artist in the lyrics of "The Tortured Poets Department"?

A: Charlie **Puth**

90. What function of the angle of incline times  $g$  equals the acceleration due to gravity of an object sliding down a frictionless inclined plane?

A: **sine** function

91. What country borders Nigeria, Chad, the Central African Republic, the Republic of the Congo, Gabon, and Equatorial Guinea?

A: **Cameroon**

92. What sensation, a symptom of GERD ["gurd"], is caused by gastric reflux into the esophagus?

A: **heartburn** (accept: **pyrosis**, **cardialgia**, **acid indigestion**) (prompt on: **indigestion**)

93. What effect is factored into a Marshallian demand curve but not a Hicksian demand curve?

A: **income** effect (accept: **wealth** effect)

94. What word does Tuco Salamanca repeatedly yell in a junkyard after trying Walter White's meth for the first time?

A: **tight**

95. What constellation names the supercluster of galaxies the Milky Way is located in?

A: **Virgo**

96. What 2021 cooperative platformer game features a married couple trapped in dolls who must work together to return to their human forms?

A: **It Takes Two**

97. In 1855, what University of Heidelberg professor collaborated with Peter Desaga to create a namesake piece of lab equipment that made use of the university's new gas line?

A: Robert **Bunsen**

98. What basic field of philosophy deals with questions of being and reality?

A: **metaphysics**



99. What is the tallest peak in Antarctica?  
A: **Vinson** Massif (accept: Mount **Vinson**)
100. The hippocampus is involved in the formation of the long-term form of what faculty?  
A: long-term **memory** formation (accept: **remembering, recall**)

**END OF GAME**