



## 2023-24 High School Championship (T4) – Pack 7

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# PACK 7

## 5-Part Blitz

1. In birdwatching, what two-word term refers to a challenge to identify as many species of birds as possible in 12 months?  
A: **big year**
2. Following the death of Catherine de Medici, what royal house took control of the French throne?  
A: House of **Bourbon**
3. Robust statistics are not overly affected by what kind of values, which differ greatly from most other values in a data set?  
A: **outliers**
4. In what historical district in London's East End were a series of murders committed between 1888 and 1891, commonly attributed to Jack the Ripper?  
A: **Whitechapel**
5. Although it originally stood for "personal", what does the first P in PHP currently stand for?  
A: **PHP**

## Double Jump

6. What organ is divided into two atria and two ventricles?  
A: the **heart**
7. Found in the wall of the right atrium, which node of the heart produces electrical impulses that cause contraction, making it a natural pacemaker?  
A: **sinoatrial** node (accept: **SA** node)

## Double Jump

8. What is the largest city on Honshu, the main island of Japan?  
A: **Tokyo**
9. What is the largest city on the northern Japanese island of Hokkaido?  
A: **Sapporo**

## Set of 4

10. The 2022 iteration of what tournament was played during August in Edmonton instead of over the winter holiday season after a COVID-19 outbreak forced its postponement?  
A: Hockey **World Juniors** (accept: IIHF **World Junior** Championship)
11. What country has won the most World Junior titles?  
A: **Canada**
12. In this year's tournament, what team scored with 11 seconds left in regulation of the quarterfinals to eliminate Canada?  
A: **Czechia** (accept: the **Czech** Republic)
13. What nickname was given to the 1987 bench-clearing brawl between Canada and the Soviet Union?  
A: **Punch-Up in Piestany**

## Jackpot

14. Part 1: A species of nematode named for what substance appears during the fermentation of kombucha? The same nematodes can also appear when creating this substance out of a related one known as its "mother".
15. Part 2: A particular form of this substance can be made from trebbiano or lambrusco grapes, depending on whether it comes from Modena or Reggio Emilia.
16. Part 3: Common variants of this substance are made with apple cider or red wine.
17. Part 4: This sour substance is paired with salt in a popular flavour of potato chips.  
A: **vinegar**

### Set of 3: Flowers

18. With a Greek-derived name translating to "container of seed", what clade includes all flowering plants?  
A: **angiosperms** (accept: **Angiospermae**)
19. What kind of animal is the title character in the Daniel Keyes story *Flowers for Algernon*?  
A: **mouse**
20. What asteroid is home to a single rose that the titular Little Prince falls in love with?  
A: asteroid **B-612**

### 5-Part Blitz

21. Norway, Ireland, and Spain recognized the independence of what country this week?  
A: **Palestine**
22. Common in slang and hip hop, what French jargon uses the inversion of syllables in words, and is an example of itself?  
A: **verlan**
23. What supernova remnant, also known as Taurus A, is the first in the Messier catalogue and was observed by multiple civilizations in AD 1054?  
A: **Crab Nebula**
24. Name any of the three countries in which most Akan people live.  
A: **Ghana** OR the **Ivory Coast** (accept: **Côte d'Ivoire**) OR **Togo**
25. What pair of twins is found in the sculpture known as the Capitoline Wolf?  
A: **Romulus** AND **Remus**

## END OF FIRST QUARTER

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## SECOND QUARTER

### Splits: World War II Commanders & Chemical Reactions

#### World War II Commanders

26. Who defeated Operation Citadel at Kursk and captured Berlin as a marshal of the Soviet Union?  
A: Marshal Georgy **Zhukov**
27. What proponent of island-hopping was commander-in-chief of America's Pacific Fleet and of the Allied Pacific Ocean Areas?  
A: Admiral Chester **Nimitz**
28. Who trained the Eighth Army for months before leading it to victory at El Alamein, and was then promoted to field marshal and commanded British troops in Western Europe?  
A: Field Marshal Bernard **Montgomery**

29. As the Supreme Allied Commander of the Allied Expeditionary Force, what American oversaw D-Day and the defeat of Germany in Western Europe?  
A: General Dwight **Eisenhower**

### Chemical Reactions

30. A negative enthalpy change is associated with what kind of reaction, in which heat is released?  
A: **exothermic** reaction
31. What field studies the rate of chemical reactions?  
A: chemical/reaction **kinetics**
32. What property of a reaction is represented by a double-headed arrow?  
A: **reversible** (accept: **reversibility**)
33. The formation of ammonia from the reaction of hydrogen and nitrogen gas is an example of what type of chemical reaction, in which two substituents combine to form a product?  
A: **synthesis**

### Double Jump

34. Rapid shifts between mania and what other state characterize bipolar disorder?  
A: **depressive** state (accept: **depression**)
35. Prozac belongs to what class of drugs known by a 4-letter acronym, the main class of drug used to treat depression?  
A: **SSRIs** (accept: **selective serotonin reuptake inhibitors**)

### Double Jump

36. Who built a boat that allowed life to survive for 40 days when God unleashed a great flood upon the Earth?  
A: **Noah**
37. What two mortals successfully rode their boat to Mt. Parnassus, making them the only humans to survive the great flood in Greek mythology?  
A: **Deucalion** AND **Pyrrha**

### Set of 4

38. What surname was shared by composers Johann Christian, Carl Phillip Emmanuel, and Johann Sebastian?  
A: **Bach**
39. C.P.E. Bach served in the court of what monarch, who also presented J.S. Bach with the theme of *The Musical Offering*?  
A: **Frederick the Great** (accept: **Frederick II**) (prompt on: **Frederick**)
40. Name either the mathematician or the artist who appear in the title of a Douglas Hofstadter book along with Johann Sebastian Bach.  
A: Kurt **Goedel** OR M.C. **Escher**
41. What sporting organization is led by 1976 fencing gold medallist Thomas Bach?  
A: **International Olympic Committee** (accept: **IOC**)

### Set of 4

42. What transition metal has the highest thermal and electrical conductivity of any metal?  
A: **silver**

43. What type of mythological being can notably be killed by a silver bullet?  
A: **werewolf**
44. In what Robert Louis Stevenson novel is the main antagonist a man named Long John Silver?  
A: **Treasure Island**
45. The singer of what Christmas carol sings "Ding-a-ling, hear them ring" about the title objects?  
A: **"Silver Bells"**

#### **Linked Set of 5**

46. At what kind of location does Paul Blart work as a security guard in a 2009 movie?  
A: **mall**
47. Which American state is home to North America's largest mall, the Mall of America?  
A: **Minnesota**
48. Which zodiac sign is represented in the name of Minnesota's MLB team?  
A: **Gemini**
49. In the 1960s, what agency of the American federal government operated Project Gemini?  
A: **NASA** (accept: **National Aeronautics and Space Administration**)
50. What pop artist included a track titled "NASA" on her 2019 album "thank u, next"?  
A: Ariana **Grande**

#### **END OF FIRST HALF**

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#### **THIRD QUARTER**

#### **Splits: American Short Fiction & Musical Adaptations of Movies**

##### **American Short Fiction**

51. What community is home to Ichabod Crane and the Headless Horseman in a story by Washington Irving?  
A: **Sleepy Hollow**
52. After a grandmother misremembers the location of a house, the Misfit antagonizes a vacationing family in what Flannery O'Connor story?  
A: "A **Good Man is Hard to Find**"
53. Characters are frequently buried or sealed up alive in the stories of what author, including in "The Black Cat", "The Cask of Amontillado", and "The Tell-Tale Heart"?  
A: Edgar Allan **Poe**
54. What kind of creature is Dan'l Webster, who Jim Smiley wagers can outjump any other creature of its kind in Calaveras County, in a story by Mark Twain?  
A: **frog**

##### **Musical Adaptations of Movies**

55. What character is described as the "Apex Predator" and sings "World Burn" as she reveals the contents of the Burn Book?  
A: **Regina George** (accept either bolded part)
56. In what musical adaptation did Harvey Fierstein play a character originally portrayed by drag queen Divine, the mother of aspiring Baltimorean dancer Tracy Turnblad?  
A: **Hairspray**

57. Hippiie Lorenzo Saint DuBois is replaced by flamboyant director Roger De Bris in the role of Adolf Hitler in the musical adaptation of what Mel Brooks film?  
A: *The **Producers***
58. The show-within-a-show is renamed "Bohemian Rhapsody" from "Spectacular Spectacular" in what adaptation of a 2001 Baz Luhrmann film set in the title Parisian cabaret?  
A: ***Moulin Rouge!***

### Set of 3: Paradox Games

59. The Paradox series that takes place from 1836 to 1936 is named after what monarch, who reigned over Britain from 1836 to 1901?  
A: Queen **Victoria I**
60. The player must conquer the entire world starting as what tag to earn the achievement called "The Three Mountains" in *Europa Universalis 4*?  
A: **Ryukyu**
61. In what game is an icon of a pawn with the shadow of a queen used to represent "Ambitious" characters, who might try to overthrow their liege?  
A: ***Crusader Kings 3*** (accept: **CK3**)

### Jailbreak

62. By marrying their daughters to emperors, what clan came to dominate the politics of Heian-era Japan?  
A: **Fujiwara** clan
63. In 2022, what fashion house was caught in a controversy where one of their advertisements featured children holding suggestive teddy bears?  
A: **Balenciaga SA**
64. Shortly after winning three awards, including Best Rap Song and Best Rap Album, what musician was arrested at the 2024 Grammy Awards?  
A: **Killer Mike** (accept: Michael Santiago **Render**)
65. What word refers to sounds too high for humans to hear?  
A: **ultrasounds** (accept: **ultrasonic**)
66. What is the fifth letter of the Greek alphabet?  
A: **epsilon**
67. What kind of natural disaster can cause a nuée ardente, which is a type of pyroclastic flow?  
A: **volcanic eruption** (prompt on: eruption)
68. In what sea are the Balearic Islands located?  
A: **Mediterranean Sea**
69. For how many seasons did *The Wire* and *Breaking Bad* run?  
A: **five**
70. What is the cosine of pi radians?  
A: **-1**
71. René Magritte declared "This is not a pipe" beneath an image of a pipe in what painting?  
A: *The **Treachery of Images***
72. What term refers to words that are spelled the same way but have different meanings and pronunciations?  
A: **heteronyms**
73. How many seats are in the House of Commons of Canada?  
A: **338**
74. What Roman emperor partially titles a historical novel by Robert Graves, and co-names a Roman dynasty with Julius Caesar?  
A: **Claudius**

75. The Tony awards are named after what actress?

A: Antoinette **Perry**

## END OF THIRD QUARTER

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## FOURTH QUARTER

### Jackpot

76. Part 1: What word was suggested for official use by Samuel Tilley in 1866, adopting language from Psalm 77? This word entered into greater usage at a conference in London in 1907.

77. Part 2: This word is the brand name of Loblaw's stores in Newfoundland and Labrador, and it was used across the country for Metro stores before 2008.

78. Part 3: This word is the name of a Toronto-based company that sued Fox News in 2021 for alleging that its electronic voting systems were rigged against Donald Trump.

79. Part 4: This word referred to the status of Canada in the British Empire after Confederation, and it is found in the full name of TD Bank.

A: **dominion**

### Set of 5: Central American Geography

80. Bull sharks notably inhabit what lake, the largest in Central America?

A: Lake **Nicaragua**

81. Aside from Nicaragua, name the other two countries that border the Gulf of Fonseca.

A: **El Salvador** AND **Honduras**

82. What city became a national capital after Hurricane Hattie caused mass destruction to the former capital of Belize City?

A: **Belmopan**

83. Belize and what other Central American country border Mexico?

A: **Guatemala**

84. The Chiriqui Lagoon and the Gulf of Chiriqui are found on the coasts of what country, where Ferdinand de Lesseps and Gustave Eiffel took part in a corrupt construction project?

A: **Panama**

### Set of 4

85. What most widely-used building material is composed of aggregate bound together by a cement-water slurry?

A: **concrete**

86. What type of concrete uses bitumen as a binder, which causes its characteristic pitch black colour?

A: **asphalt** concrete

87. The French term for "raw concrete" gave its name to what architectural style, which uses concrete extensively?

A: **brutalism** (accept: **brutalist**)

88. In metaphysics, what term is the opposite of concrete, describing entities such as propositions and numbers?

A: **abstract**

### 12-Part Blitz

89. What is the linear coefficient of the expanded form of  $2x + 5$  times  $x + 3$ ?  
A: **11**
90. An 8-bit unsigned integer has what maximum value?  
A: **255**
91. What poet wrote "so much depends / upon / a red wheel / barrow"?  
A: William Carlos **Williams**
92. Whose album *All Eyez on Me* featured the tracks "I Ain't Mad at Cha" and "California Love"?  
A: **Tupac Shakur** (accept either bolded part) (accept: **Makaveli**)
93. Since 2005, what actor has had a joke feud with Jimmy Kimmel, after Kimmel began ending episodes of his talk show by apologizing to him for not featuring him?  
A: Matt **Damon**
94. The expansion of what ethnolinguistic group is associated with the spread of iron-age technologies in Sub-Saharan Africa?  
A: **Bantu** people
95. An adjective meaning feeling queasy or unwell, spell nauseous.  
A: **N-A-U-S-E-O-U-S**
96. Since October 2023, what military group has been launching attacks on commercial shipping in the Red Sea from its base of power in Yemen?  
A: **Houthi** tribe (accept: **Ansar Allah**)
97. Who led the first European expedition to reach Greenland and was the father of the first European to reach North America, Leif Erikson?  
A: **Erik the Red** (prompt on: Erik)
98. What two-word term refers to a roll of two dice with one pip showing on each?  
A: **snake eyes**
99. What first major chartered joint-stock company dominated trade between England and Russia in the 16th and 17th centuries?  
A: **Muscovy** Company
100. What Latin phrase does the common abbreviation i.e. stand for?  
A: **id est**

**END OF GAME**