



## 2023-24 Post-Secondary 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 player famously scored a tying goal with 5.4 seconds left in regulation to force overtime against Russia during Canada's semifinal game in 2009?  
A: Jordan **Eberle**
12. In this year's tournament, what country scored with 11 seconds left in regulation of 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 Piastany**

## 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 form of this substance named sukang maasim made from sugarcane is popular in the Philippines.
16. Part 3: A particular form of this substance can be made from trebbiano or lambrusco grapes, depending on whether it comes from Modena or Reggio Emilia.
17. Part 4: Common variants of this substance are made with apple cider or red wine. 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. What city's Crocus City Hall was the site of a mass shooting and arson that killed over a hundred people on Friday?  
A: **Moscow** (accept: **Krasnogorsk**)
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. What marshal gained renown with a successful counter-attack near Rostov in late 1941, but had three armies encircled near Kharkov the following spring and was temporarily relieved of his command?  
A: Marshal Semyon **Timoshenko**

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. After writing the book *Achtung - Panzer!* in 1936, who led the Second Panzer Army during Operation Barbarossa, at the forefront of the attack on Moscow?  
A: General Heinz **Guderian**

### Chemical Reactions

30. Often used in welding, what self-sustaining, intense exothermic reaction involves a redox between a metal, typically aluminum, and an oxide of a different metal?  
A: **thermite** process/reaction (accept: **Goldschmidt** process/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 reversible reaction in which carbon monoxide and water vapour react to form carbon dioxide and hydrogen has what name?  
A: **water-gas shift** reaction (accept: **WSGR**)

### Double Jump

34. 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**)
35. What plant with yellow flowers is often used in alternative medicine as a treatment for depression, but has potentially lethal interactions with many prescription drugs, including SSRIs?  
A: **St. John's wort**

### 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 **Pyrhha**

### Set of 4

38. What surname was shared by composers Johann Christian, Carl Phillip Emmanuel, and Johann Sebastian?  
A: **Bach**
39. Johann Christian Bach spent his working career in what city?  
A: **London**
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. How many stories are found in a collection that includes "For Esmé – with Love and Squalor" and "A Perfect Day For Bananafish", written by J.D. Salinger?  
A: **nine**
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, whom 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. Hippy 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 as Ryukyu to earn what achievement in *Europa Universalis 4*?  
A: The **Three Mountains**
61. This coming Tuesday will see the launch of what historical turn-based 4X game from Paradox?  
A: **Millennia**

### 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, which sometimes have rotated logos.
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. Which three Central American countries border the Gulf of Fonseca?  
A: **Nicaragua** AND **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. Which two Central American countries border Mexico?  
A: **Guatemala** AND **Belize**
84. The Chiriqui Lagoon and the Gulf of Chiriqui are found on the north and south coasts, respectively, of what country?  
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**

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  $2x + 5x + 3$ ?  
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**