



2023-24 High School Late Fall Tournament (T2) – Pack 4

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PACK 4

5-Part Blitz

1. What building's distinctive rooftop shells were designed by Jorn Utzon, though he resigned as the head of its design team before it was finished in 1973?
A: **Sydney Opera House**
2. The Sumerians are considered the first to have used what ancient writing system?
A: **cuneiform**
3. Cerebus, in a comic by Dave Sim, and Arthur, in a children's TV series on PBS, are both fictional examples of what animal?
A: **aardvarks** (accept: **anteaters**)
4. Expressed as a fraction in simplest terms, what is the probability of rolling a combined total of 7 on two 6-sided dice?
A: **1/6**
5. Which letter represents an honorific used for respected Burmese men, such as in the name of a former UN Secretary-General?
A: **U**

Double Jump

6. Who included movements such as "For unto us a child is born" and "I know that my Redeemer liveth" in his oratorio *Messiah*, which also includes the "Hallelujah" chorus?
A: George Frideric **Handel**
7. What anthem did Handel compose for the coronation of George II? It has been played at every British royal coronation since then.
A: **Zadok the Priest**

Double Jump

8. In what sport do three of the four team members sweep in front of a large granite stone to help it slide down the ice?
A: **curling**
9. What word refers to the captain of a curling team?
A: **skip**

Set of 4: States of Matter

10. Under standard pressure, dry ice undergoes what phase change above negative 78.5 degrees Celsius?
A: **sublimation**
11. For water, approximately 0.01 degrees Celsius and 6 thousandths of an atmosphere is what point, where solid, liquid, and gas coexist?
A: **triple** point
12. Recombination and ionization are the phase changes between gases and what fourth state of matter?
A: **plasma**

13. What scientist names a class of particles with integer spin, and co-names a state of matter along with Albert Einstein?
A: Satyendra Nath **Bose**

Jackpot

14. Part 1: What country represents the interests of the US and Canada through its embassy in North Korea?
15. Part 2: This country's Karolinska Institute is among the best medical schools in the world.
16. Part 3: If Hungary and Turkey agree to ratify its membership, this country will become the 32nd member of NATO.
17. Part 4: This country hosts the presentation ceremony for five of the six Nobel Prizes in its capital of Stockholm.
A: **Sweden**

Set of 3: American Misspellings

18. Spell the seven-letter word that Donald Trump wrote in a tweet, which was likely a typo of "coverage".
A: **C-O-V-F-E-F-E**
19. What vegetable was spelled with an additional "E" at the end by then-vice president Dan Quayle?
A: **potato**
20. What racehorse, which won the 2015 Triple Crown, has a misspelling of an ancient Egyptian title in its name?
A: **American Pharoah**

5-Part Blitz

21. What European city is home to the headquarters of Prada, Armani, and many other fashion houses?
A: **Milan**
22. What name is given to a four-line-long poetic stanza?
A: **quatrain**
23. A goddess of the moon is the namesake of what species of large pale green moth?
A: **luna** moth
24. What two-word term is used to refer to esteemed European painters from before the 19th century?
A: **Old Masters**
25. True and False are the two possible values for what data type?
A: **boolean**

END OF FIRST QUARTER

SECOND QUARTER

Splits: Lines in Geography & Rock Album Covers

Lines in Geography

26. North and South Korea were split along what parallel north?
A: **38th** parallel north (accept: **38** degrees north)
27. The royal observatory of what English town once served as the basis for the Prime Meridian?
A: **Greenwich** ["GREN-itch"]

28. Lying near the western border of Manitoba, what meridian west was claimed by the Tragically Hip to be "where the great plains begin"?
- A: **100th** meridian west (accept: **100** degrees west)
29. Although it sometimes strays from its north-south path to accommodate various landforms, what geographical line generally follows the 180th meridian?
- A: **International Date** Line (prompt on: date line)

Rock Album Covers

30. A bloody hand gripping a heart-shaped grenade appears on what album by Green Day?
- A: **American Idiot**
31. What band used the distinctive green and pink lettering from Elvis Presley's first album, alongside a picture of their bassist smashing his instrument, on the cover of *London Calling*?
- A: The **Clash**
32. Most of what band's eponymous albums feature its four members standing in a row against a coloured backdrop?
- A: **Weezer**
33. A white Volkswagen Beetle is parked on the left of what 1969 album cover that depicts the Beatles crossing a crosswalk?
- A: **Abbey Road**

Double Jump

34. What organ is responsible for the metabolism of most drugs, including alcohol, and is inflamed in hepatitis?
- A: **liver**
35. Unlike chronic liver failure, which is mostly caused by hepatitis infection or alcohol abuse, most cases of acute liver failure in the West come from overdoses of what drug?
- A: **Tylenol** (accept: **acetaminophen, paracetamol**)

Double Jump

36. Pinatubo, Etna, and Krakatoa are all what kind of geographical feature?
- A: **volcanoes** (prompt on: mountains)
37. Mauna Loa is what kind of volcano, characterized by its flattened, rounded shape that usually extends over a large area?
- A: mature **shield** volcano

Set of 4: Celts ["KELTS"]

38. What Celtic people inhabiting central Anatolia were the addressees of the ninth book of the New Testament and first Pauline epistle?
- A: **Galatians**
39. What is the only surviving Celtic language native to continental Europe, where it is spoken in the region of Brittany?
- A: **Breton**
40. Members of the educated priestly class of ancient Celtic cultures are known by what English word?
- A: **druids**
41. The Gaelic culture, before spreading to Scotland and the Isle of Man, originated on what other island?
- A: **Ireland**

Set of 4: Jennifer Lawrence Movies

42. Lawrence won a Best Actress Oscar for what 2013 drama that also starred Bradley Cooper?
A: ***Silver Linings Playbook***
43. What movie, centred on an impoverished family in the Ozark mountains, was Lawrence's breakout role and first Oscar nomination in 2010?
A: ***Winter's Bone***
44. Lawrence began dating director Darren Aronofsky while starring in which of his movies, an allegorical psychological horror film?
A: ***Mother!***
45. Lawrence played an Uber driver who is paid to date a shy 19-year-old boy in what 2023 comedy?
A: ***No Hard Feelings***

5-Part Blitz

46. The foundational natural history works *Physica* and *Causae et Curae* were written by what medieval abbess and composer from modern-day Germany?
A: Saint **Hildegard** von Bingen (accept: Saint **Hildegard** of Bingen)
47. What is 22 times 19?
A: **418**
48. What graphic novel by Marjane ["mar-JAHN"] Satrapi describes her experience growing up in the wake of the Iranian Revolution?
A: ***Persepolis: The Story of a Childhood***
49. What word can mean a friend or the early stage of a flower?
A: **bud**
50. After being left by her husband Joel, what housewife decides to start performing stand-up comedy in an Amazon series?
A: The Marvelous Mrs. **Maisel** (accept: "**Midge**" Maisel, **Miriam** Maisel)

END OF FIRST HALF

THIRD QUARTER

Splits: Mushrooms and Fungi & Taiwan

Mushrooms and Fungi

51. What name is given to the scientific study of fungi?
A: **mycology**
52. Pigs, and more recently dogs, have been used to sniff out what kind of subterranean fungi prized in certain cuisines?
A: **truffles**
53. Because it bears a resemblance to many edible species, what highly toxic mushroom is responsible for 90% of mushroom-related poisonings around the world?
A: **death cap** mushroom
54. What type of mushroom has a name that can mean "beautiful door", and is often used as the patty in veggie burgers?
A: **portobello** mushroom

Taiwan

55. What is the flag carrier airline of Taiwan?
A: **China Airlines**
56. What did the Portuguese originally name the island of Taiwan?
A: **Formosa**
57. What word precedes "Taiwan Dollar" and "Taipei City" in the names of Taiwan's currency and largest city?
A: **new**
58. What party ruled Taiwan as a dictatorship after fleeing there following its defeat in the Chinese Civil War in 1949?
A: **Kuomintang** (accept: **KMT**, **Guomindang**, Chinese **Nationalist** Party, **Nationalist** Party of China)

Double Jump

59. Cygnus X-1 was the first observed example of what kind of entity, which is bounded by an event horizon past which matter can no longer escape?
A: **black hole**
60. What name is given to the radiation theorized to be released just outside of the event horizon of a black hole?
A: **Hawking** radiation

Double Jump

61. What team won its quarterfinal and semifinal games by 1 point before beating New Zealand by 1 point in the final of the 2023 Rugby World Cup?
A: **South Africa**
62. Name the countries that South Africa beat in the quarter-finals and semi-finals.
A: **France** AND **England**

Set of 3: The Top Tier

63. In tier lists of video game characters, what letter designation is most commonly given to the tier above A?
A: **S**-tier
64. Also the name of a real-world element with atomic number 77, what level of tools, fish, and harvestables is better than gold in Stardew Valley?
A: **iridium**
65. What is the highest Learning Skills and Work Habits grade a student can get on an Ontario report card?
A: **Excellent** (accept: **E**)

Set of 3: Modernization

66. In what empire was the Edict of Gulhane ["gyool-HAHN-ay"] proclaimed during a period of reformation known as the Tanzimat?
A: **Ottoman** Empire (accept: Ottoman **Turkey**, **Turkish** Empire)
67. Under what emperor did Japan undergo a namesake "restoration" in 1868?
A: **Meiji** emperor
68. Who embarked on a Grand Embassy to western Europe in 1697, learning shipbuilding techniques that would later help him create a modern Russian navy?
A: **Peter the Great** (accept: **Peter I**) (prompt on: **Peter**)

Set of 4: Audio

69. What is the SI unit for frequency?
A: **Hertz**
70. What frequency is the standard tuning for the first A above middle C?
A: **440** Hz (accept: **A440**)
71. What kind of loudspeaker is designed to reproduce very low bass and sub-bass frequencies?
A: **subwoofer**
72. What term refers to sounds lower in frequency than normal human hearing?
A: **infrasound** (accept: **infrasonic**)

Set of 3: Animals in Canadian Literature

73. What animals title the graphic memoir by Kate Beaton that won Canada Reads 2023? The memoir's name references an event where these animals died in a pond of oilsands waste.
A: **ducks**
74. The behaviour of what animals in the Canadian Arctic is extensively documented in a semi-autobiographical Farley Mowat novel?
A: **wolves**
75. Besides the tiger, name one animal that accompanied Piscine Molitor on his lifeboat in *Life of Pi*.
A: spotted **hyena** OR **zebra** OR **orangutan**

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: Traditional examples of what items use a tourbillon to reduce gravitational distortion of their escapement?
77. Part 2: One of the most expensive ones of these objects ever sold was named for Henry Graves, and another famous model is named the Royal Oak.
78. Part 3: Major brands making these products include Audemars Piguet, Citizen, and Patek Philippe.
79. Part 4: Geneva is home to many companies that make these products, including Rolex.
A: **watches** (accept: wrist**watches**, pocket**watches**) (reject: clocks)

Streak

80. Name up to all five of the Canadian national parks that are partially or entirely in the Rockies.
A: **Banff** National Park
A: **Jasper** National Park
A: **Kootenay** National Park
A: **Yoho** National Park
A: **Waterton Lakes** National Park

Streak

83. Name up to all of the presidents of the United States who appear on stage in the musical *Hamilton*.
A: George **Washington**

A: Thomas **Jefferson**

A: James **Madison**

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 w

84. What word can mean a common type of freshwater game fish, or to sit on something?

A: **perch**

85. What word means to expose something to heat or another desiccant so that it loses its moisture?

A: **parch**

86. The tamarack is an example of what kind of tall conifer found in boreal forests?

A: **larch**

87. Often found on fence gates and bathroom stalls, what kind of locking device uses a metal bar to keep a door in place?

A: **latch**

88. What word can refer to an opening separating different compartments of a ship, or to come out of an egg?

A: **hatch**

12-Part Blitz

89. How many times per day are Muslims required to pray?

A: **5**

90. What SNL alumnus voices Jerry on *Rick and Morty*?

A: Chris **Parnell**

91. Consecutively completing 32 of what kind of turn is a notable feat in classical ballet?

A: **fouetté**

92. John Singer's life as a deaf man in a small town in Georgia is the subject of what classic American novel by Carson McCullers?

A: *The **Heart is a Lonely Hunter***

93. In what statistical phenomenon with a four-word name will an extreme result in one direction typically be followed by a more expected one?

A: **regression towards the mean** (accept **regressing**, **reverting**, or **reversion** in place of **regression**)

94. What song by electronic duo Duck Sauce is named after an American singer and actress, whose name is repeated throughout the otherwise non-lyrical chorus?

A: **"Barbra Streisand"**

95. What language has an American derivative known as Pennsylvania Dutch?

A: **German**

96. Which two of Japan's 10 largest cities are anagrams of each other?

A: **Tokyo** AND **Kyoto**

97. What nearly 70-metre-long artifact depicts the Norman invasion of England up to and including the Battle of Hastings?

A: **Bayeux Tapestry** (accept: **Tapestry of Bayeux**)

98. Switching the first unsorted element with the smallest remaining element is the process for what sorting algorithm?

A: **selection** sort

99. What was the only empire to ever control the entire Silk Road at once?

A: **Mongolian** Empire

100. What nickname is given to the last pick of the National Football League Draft?

A: **"Mr. Irrelevant"**

END OF GAME