



## 2024-25 High School Championship (T3) – Pack 12

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# PACK 12

## 5-Part Blitz

1. What term refers to the apparent difference in location of an object from two separate viewpoints, often encountered in astronomical observations of stars?  
A: **parallax**
2. What specific physical quality is someone said to possess if they are particularly good at gardening or growing plants?  
A: **green thumb**
3. How many standard dice must be rolled in order for the expected sum to be 21?  
A: **6**
4. What salt is produced when baking soda reacts with vinegar?  
A: **sodium acetate**
5. The letters "e.p." in chess notation stand for what kind of special pawn capture?  
A: **en passant**

## Double Jump

6. The Puccini opera *La Bohème* inspired what musical about artists living in New York during the AIDS crisis?  
A: **Rent**
7. *Rent's* music, lyrics, and book were all written by what composer, who dramatized his own life in the musical *Tick, Tick... Boom!?*  
A: Jonathan **Larson**

## Double Jump

8. Whose poem "Lady Lazarus" was released two years after her 1963 suicide?  
A: Sylvia **Plath**
9. "Lady Lazarus", as well as poems like "Tulips" and "Daddy", were released in what posthumously published collection by Sylvia Plath?  
A: **Ariel**

## 4-Part Mystery

10. Which American state contains Temple Square, home to the Mormon Tabernacle?  
A: **Utah**
11. What element, the most malleable metal, was bombarded with alpha particles in Rutherford's scattering experiments?  
A: **gold** (accept: **Au**) (reveal: **gold**)
12. Zulfiqar, Durandal, and Hrunting are all legendary examples of what kind of weapon?  
A: **swords**
13. Warren Buffett's Berkshire Hathaway is headquartered in what city?  
A: **Omaha**

## Jackpot

14. Part 1: What adjective is in the name of a body of water that meets the Bahr el Ghazal at Lake No?
15. Part 2: Another body of water named for this adjective is made up of several large bays, including Onega Bay, and contains the southern shore of the Kola Peninsula.
16. Part 3: This adjective appears in the name of a famous landform across the water from Calais.
17. Part 4: Along with blue, this colour names a tributary of the Nile, as well as a sea at the northwest of Russia and the Cliffs of Dover. Water at river rapids is said to be this colour.  
A: **white**

## Set of 3: Urban Planning

18. Planners often oppose the strictness of what regulations, which restrict the development of land in a city by area?  
A: **zoning** laws/regulations
19. Toronto's proposed Spadina Expressway and Robert Moses's plans for redeveloping Greenwich ["GREN-itch"] Village in New York were both successfully stopped by what celebrated urbanist author?  
A: Jane **Jacobs**
20. Jacobs often opposed plans to redevelop what kind of neighbourhoods, known as their namesake "clearances", generally finding them vibrant and much safer than their popular image?  
A: **slums**

## 5-Part Blitz

21. What objects can come in toothpaste, red devil, and cat's eye varieties?  
A: **marbles**
22. What credit card company shares its name with the kind of documentation a person may require to visit or work in another country?  
A: **Visa**
23. Give the Sanskrit name of either of the two main branches of Buddhism.  
A: **Theravada** Buddhism OR **Mahayana** Buddhism
24. What word refers to a market with a few dominant sellers?  
A: **oligopoly/oligopolistic**
25. What is the probability of drawing 2 red balls without replacement from a bucket of 5 red balls and 5 green balls?  
A: **2/9**

## END OF FIRST QUARTER

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## SECOND QUARTER

### Splits: College Sports & Sculpture

#### College Sports

26. In 2024, the College Football Playoff expanded to include how many teams?  
A: **12**
27. What organization governs college sports in the United States?  
A: **NCAA** (accept: **National Collegiate Athletic Association**)

28. The NCAA's annual award for the best player in what sport is named after World War I veteran Hobey Baker?  
A: **hockey**
29. What school blew a 12-point second half lead to lose in the final of this year's March Madness to the University of Florida?  
A: University of **Houston**

### **Sculpture**

30. What word refers to a sculpture on a solid background, which can come in types such as high, bas, or sunk?  
A: **relief**
31. What action are slender figures performing in many sculptures by Alberto Giacometti?  
A: **walking**
32. What figure was depicted atop the prow of a ship in a partially restored marble sculpture with wings from Samothrace?  
A: Winged **Nike** (accept: Winged **Victory**)
33. The pedestal-like part of *Nike of Samothrace* below the ship's prow is known by what term, also used for the supports that form the bases of marble busts?  
A: **plinth** (accept: **socle**)

### **Double Jump**

34. Lambic, stout, lager, and ale are all kinds of what alcoholic drink?  
A: **beer**
35. What common ingredient in beers, which adds bitterness and stabilizes the foam head, is used in large quantities in IPAs?  
A: **hops**

### **Double Jump**

36. Starting in October 2023, what Shia militant movement began launching regular attacks on ships transiting the Bab-el-Mandeb alongside Yemen?  
A: **Houthi** movement (accept: **Ansar Allah**)
37. What longtime dictator of Yemen allied with the Houthis after losing power in the Arab Spring?  
A: Ali Abdullah **Saleh**

### **Set of 4: Tests**

38. A 1905 test by Theodore Simon and Alfred Binet was an early attempt at measuring what attribute?  
A: **intelligence** (accept: **IQ**, **intelligence quotient**)
39. Students who want to attend law school in Canada or the United States must take what exam?  
A: **LSAT** (accept: **Law School Admission Test**)
40. What word refers to the surgical extraction of biological tissue in order to test for various conditions or diseases?  
A: **biopsy**
41. At the end of *Harry Potter and the Order of the Phoenix*, what standardized exams do Harry and his cohort write?  
A: **Ordinary Wizarding Levels** (accept **OWLS**)

## Set of 4: Approximate History

42. Within 40 years, when did the Declaration of the Bab ["Bob"] mark the beginning of the Baha'i faith?  
A: **1844** (accept answers from **1804** to **1884**, inclusive) (prompt on answers from '04 to '84, inclusive)
43. Within 10 years, when did Leland Stanford drive in the Golden Spike, marking the completion of North America's first transcontinental railroad?  
A: **1869** (accept answers from **1859** to **1879**, inclusive) (prompt on answers from '59 to '79, inclusive)
44. Within 25 years, when did Pope Gregory XIII ["the thirteenth"] implement his namesake calendar?  
A: **1582** (accept answers from **1557** to **1607**, inclusive) (prompt on answers from '57 to '07, inclusive)
45. Within 10 years, when did the passage of the Weights and Measures Act begin the process of converting Canada to the metric system?  
A: **1970** (accept answers from **1960** to **1980**, inclusive) (prompt on answers from '60 to '80, inclusive)

## 5-Part Blitz

46. Culminating in bids and an initiation, what term refers to the procedure where undergraduate women attempt to be recruited into a sorority?  
A: **rushing**
47. What is the trunk of a car called in Britain?  
A: **boot**
48. The arpeggiated opening of the prelude to Suite #1 is the most famous part of Johann Sebastian Bach's 6 suites for what instrument?  
A: **cello**
49. In what novel does Arctic explorer Robert Walton rescue the title scientist, who is chasing the creature he created in his lab?  
A: **Frankenstein**
50. Billie Eilish stretches out the line "Did you take your love away from me?" so that it forms the entire chorus of what song, titled for the protagonist of *Spirited Away*?  
A: **"CHIHIRO"**

## END OF FIRST HALF

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## THIRD QUARTER

### Splits: Black Holes & Superpowers

#### Black Holes

51. Though the result was not understood at the time, who first found a solution to Einstein's field equations that would result in a black hole?  
A: Karl **Schwarzschild**
52. Objects and light can no longer escape a black hole's pull once they reach what invisible boundary?  
A: **event horizon**
53. With an infinite density, what kind of region exists at the centre of a black hole?  
A: **singularity**

54. What scientist discovered that black holes actually release tiny amounts of energy, in a form of radiation now named for him?  
A: Stephen **Hawking**

### **Superpowers**

55. As a result of experiments conducted on her by Jason Woodrue, what antihero developed the ability to control all plant matter?  
A: **Poison Ivy** (accept: **Pamela Isley** (accept either bolded part))
56. What X-Men character with a sonic scream takes his name from creatures with a similar ability in Irish folklore?  
A: **Banshee** (accept: **Sean Cassidy** (accept either bolded part))
57. Considered unbreakable, what substance was used to create X-23 and Wolverine's claws?  
A: **Adamantium**
58. Powers derived from six "immortal elders" are accessible to Billy Batson after he says what word, which also names his adult superhero alter ego?  
A: **Shazam**

### **Set of 3: Cigars**

59. Round glasses, a bushy moustache and eyebrows, and a cigar were trademarks of what comedian, who often acted alongside his brothers Chico and Harpo?  
A: **Groucho Marx** (prompt on partial answers)
60. What band derisively portrayed music executives as just "riding the gravy train" on their song "Have a Cigar"?  
A: **Pink Floyd**
61. Cigars are often stored in what kind of box or room designed to regulate the amount of moisture in the air?  
A: **humidor**

### **Jailbreak**

62. What kind of machine common in Mediterranean countries sprays water for personal cleaning after using the toilet?  
A: **bidet**
63. Holland-Dozier-Holland was a production team at what record label, where they helped create songs such as "Baby Love" and "Stop! In the Name of Love"?  
A: **Motown** Records
64. Earth's rarest naturally occurring element is what extremely radioactive and toxic halogen?  
A: **astatine** (accept: **At**)
65. What was the name of the plaza around which Ancient Rome was centred?  
A: Roman **Forum** (accept: **Forum** Romanum, **Forum** Magnum)
66. Who directed *You've Got Mail* and *Sleepless in Seattle* and wrote the screenplay for *When Harry Met Sally...*?  
A: Nora **Ephron**
67. Two of what Latin letter are used to substitute the German letter that looks like a capital B?  
A: **S**
68. Starring Jerry Mathers as the titular boy and Barbara Billingsly as family matriarch June Cleaver, what sitcom has become a byword for idyllic portrayals of suburban America in the 1950s?  
A: **Leave it to Beaver**

69. What author included the story of Muhammed erroneously supporting the worship of pagan Meccan goddesses in *The Satanic Verses*, causing him to be targeted by a fatwa?  
A: Salman **Rushdie**
70. A space telescope designed to detect exoplanets, including 2-18b, which in April 2025 showed signs of the biosignature DMS, is named for what German astronomer?  
A: Johannes **Kepler**
71. What line of laptops, which originated the red TrackPoint in the middle of the keyboard, is now produced by Lenovo?  
A: Lenovo **ThinkPad**
72. What Manitoban town is named for an action one would take to get from the Assiniboine river to Lake Manitoba?  
A: **Portage la Prairie**
73. What political party, which has been in power since 1994, has had leaders including Oliver Tambo, Thabo Mbeki, Jacob Zuma, and Nelson Mandela?  
A: **African National Congress** (accept: **ANC**)
74. Gambling is a major industry in what special administrative region of China, west of Hong Kong?  
A: **Macau**
75. As  $x$  approaches zero, the expression  $\frac{\sin x}{x}$  approaches what value?  
A: **1**

#### END OF THIRD QUARTER

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#### FOURTH QUARTER

##### Jackpot

76. Part 1: In the 1444 start date of *Europa Universalis 4*, what is the only country to have a starting general with 3 siege pips?
77. Part 2: In *Civilization 6*, this faction's Grand Tour ability provides them with double tourism from all wonders.
78. Part 3: In *Hearts of Iron 4*, this country starts with the Disjointed Government national spirit and has a stretch of maxed-out fortifications on its eastern border.
79. Part 4: In *EU4*, this country's decisions include the Edict of Nantes and one that translates as "I am the state".  
A: **France**

##### Streak

80. Name up to every Shakespearean play that features characters who live in Ancient Rome.
- A: **Julius Caesar**
- A: **Antony and Cleopatra**
- A: **Titus Andronicus**
- A: **Coriolanus**
- A: **Cymbeline**

## Streak

83. Give the common names of up to all of the seven largest living species in the cat family.

A: **lion**

A: **tiger** (accept: Bengal **tiger**, Siberian **tiger**)

A: **jaguar**

A: **cougar** (accept: **puma**, Florida **panther**, **mountain lion**, **catamount**)

A: **leopard** (accept: Amur **leopard**, African **leopard**, Indian **leopard**)

A: **cheetah**

A: **snow leopard**

## Set of 3: Spelling

86. A verb meaning to give someone pause or concern: spell "faze".

A: **F-A-Z-E**

87. An adjective meaning attentive and diligent: spell "thorough".

A: **T-H-O-R-O-U-G-H**

88. A vivid pink colour: spell "fuchsia" ["FEW-shuh"].

A: **F-U-C-H-S-I-A**

## 12-Part Blitz

89. Seen in boiling point elevation and freezing point depression, what kind of property depends only on the number of species that a solute molecule dissolves into?

A: **colligative** property

90. In the early first millennium BC, what two Jewish kingdoms controlled much of the Levant?

A: **Judah** (reject: Judea) AND **Israel**

91. Name any two of the three foreign countries bordered by Arunachal Pradesh, India's northeasternmost state.

A: (any two of) **Bhutan** AND **Burma** (accept: **Myanmar**) AND **China** (accept: **People's Republic of China**, **PRC**) (reject: Republic of China)

92. The title character arrives and leaves on a swan-boat in what Wagner opera, which features the chorus known commonly as "here comes the bride"?

A: **Lohengrin**

93. In the Gilded Age, what derisive nickname was given to wealthy tycoons perceived as greedy and unethical?

A: **Robber Barons**

94. What television network has aired shows such as *Windy City Rehab*, *Love It or List It*, and *House Hunters*?

A: **HGTV** (accept: **Home & Garden Television**)

95. Describing large vehicles often covered with vivid decorations, what portmanteau refers to the most common form of public transportation in the Philippines?

A: **jeepney**

96. In the United States, what sort of patch is traditionally given for excellence in school sports, and adorns a baseball-style flight jacket?

A: varsity **letter** (accept: **letter** patch, **monogram**)

97. The character sequence "backslash T" most commonly represents what kind of whitespace?

A: **tab** character

98. Tectonic plates slide alongside one another at what kind of plate boundary?

A: **transform** boundary/fault



99. About to release its second crossover with Abbott Elementary, what television series follows the antisocial misadventures of “the gang”?  
A: ***It’s Always Sunny in Philadelphia*** (prompt on: *It’s Always Sunny*)
100. What is the home country of Avicii, as well as a namesake “House Mafia”?  
A: **Sweden**

**END OF GAME**