



2022-23 High School Championship (T3) – Pack 8

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PACK 8

FIRST QUARTER

4-Part Blitz

1. The 2022 NBA Rookie of the Year Award was won by what Raptors power forward?

A: Scottie **Barnes**

2. What is the most common style sheet language used to customize the appearance of web pages?

A: **CSS** (accept: **Cascading Style Sheets**)

3. What comic strip character has a younger sister named Sally and a beagle named Snoopy?

A: **Charlie Brown** (accept either underlined part)

4. According to an Elton John song, what is Saturday night alright for doing?

A: **fighting**

Jackpot

5.

Part 1: What place followed Brehon Law during the medieval period? The Papal Bull Laudabiliter allegedly justified Richard De Clare's conquest of this place.

Part 2: Each July, this island is home to a controversial celebration that originally commemorated the Battle of Aughrim and is called "The Twelfth".

Part 3: The Battle of the Boyne was a major defeat for the Jacobites on this island, and a 1798 rebellion on this island led to the passing of the Acts of Union 1800.

Part 4: In the fifth century, this island was Christianized by Saint Patrick.

A: **Ireland**

Set of 4: The Dakotas

9. What Coen brothers film is named for North Dakota's largest city?

A: **Fargo**

10. What architect designed a national monument in the Black Hills of South Dakota, Mount Rushmore?

A: Gutzon **Borglum**

11. What German leader names the capital of North Dakota?

A: Otto von **Bismarck**

12. Which state is directly south of South Dakota?

A: **Nebraska**

Set of 4: People Named Holmes

Only first names are required.

13. Who created the Edison, a blood-testing device that did not work, and was convicted of fraud as CEO of Theranos?

A: **Elizabeth** Holmes

14. While he only has one confirmed victim and reports of his "castle" in Chicago were likely exaggerated, what serial killer was the subject of *The Devil in the White City*?

A: Dr. **H.H.** Holmes (accept: **Henry** Howard Holmes)

15. What Canadian tradesman has been the star of several television series that follow him building and renovating people's homes?

A: **Mike** Holmes (accept: **Michael** Holmes)

16. Who founded the Diogenes club, and was the first person to learn that his brother actually survived his apparent death at the Reichenbach Falls?

A: **Mycroft** Holmes

Double Jumps

17. What director's early films included *Who's That Knocking at My Door* and *Mean Streets*? He later achieved mainstream success with *Taxi Driver*.

A: Martin **Scorsese**

18. Scorsese depicted what band's farewell concert in his 1978 documentary *The Last Waltz*?

A: The **Band**

19. What novel features Edward Rochester as the master of Thornfield Hall and the love interest of the title character, and was written by Charlotte Bronte?

A: **Jane Eyre**

20. Beginning at the Coulibri sugar plantation on Jamaica, what novel by Jean Rhys ["reese"] was written as a prequel to Jane Eyre?

A: **Wide Sargasso Sea**

Set of 5: Physics Calculations

You will have 5 seconds per question.

For all questions in this category, consider the following scenario. An apple with a mass of a quarter kilogram is dropped straight down from a height of 20 metres above the ground on a planet where g is 10 metres per second squared.

21. How many seconds does it take for the apple to hit the ground?

A: **2** seconds

22. What is the speed of the apple as it hits the ground, in metres per second?

A: **20** metres per second

23. Before it is dropped, what is the gravitational potential energy of the apple, in joules?

A: **50** joules

24. What is the kinetic energy of the apple as it hits the ground, in joules?

A: **50** joules

25. If the apple bounces back up with an initial speed of 4 metres per second, what magnitude of impulse does the apple experience as it hits the ground, in newton seconds?

A: **6** newton seconds (accept: **6** kilogram metres per second)

SECOND QUARTER

Splits: Skin Conditions & Woodwinds

Skin Conditions

26. What condition occurs when dead skin cells and oil clog hair follicles, causing blackheads and pimples to appear on the skin?

A: **acne** vulgaris

27. What condition is caused in adults by the varicella-zoster herpes virus that also causes chickenpox in children?

A: **shingles**

28. Moles that satisfy the ABCDE criteria are likely candidates for what deadly disease?

A: malignant **melanoma** (prompt on: skin **cancer**)

29. What condition is also known as “the seven year itch” and is caused by the burrowing of the itch mite into skin?

A: **scabies**

Woodwinds

30. Benny Goodman is most famous for playing what woodwind instrument?

A: **clarinet**

31. A flute has zero, a saxophone has 1, and an oboe has 2 of what implement that vibrates to give some woodwinds their sound?

A: **reed**

32. The highest-pitched instrument in a standard orchestra, what is a half-sized flute called?

A: **piccolo**

33. What relative of the oboe is pitched a perfect fifth lower, and should not be confused with an unrelated brass instrument?

A: **English horn** (accept: **cor anglais**)

Set of 3: Doughnuts

34. A 1963 speech by John F. Kennedy declares, “ich bin ein” what sort of person, which is also the name of a doughnut?

A: **Berliner**

35. A doughnut covered with 24 carat gold and edible diamonds was a promotion made by what company, known for their glazed doughnuts?

A: **Krispy Kreme**

36. What is the largest pack of Timbits you can buy at most Tim Hortons locations?

A: **50**

Set of 4: Volcanoes

37. In addition to Pompeii, what other ancient Roman town did Vesuvius destroy in 79 AD?

A: **Herculaneum**

38. Many volcanoes are found in what region of high tectonic activity surrounding the Pacific Ocean?

A: Pacific **Ring of Fire**

39. Saturn's moon Enceladus and Neptune's moon Triton have what sort of volcanoes that may erupt with liquid water, ammonia, or methane?

A: **cryovolcanoes**

40. The red evening sky in what painting may have been influenced by the eruption of Krakatoa, despite the fact that it is set over 10,000 kilometres away in Oslo?

A: *The **Scream***

Double Jumps

41. Ganders are adult male examples of what animals?

A: **goose** (accept: **geese**)

42. Cobs are adult male examples of what animals, adult females of which are called pens?

A: **swans**

43. What element's 235 isotope is used as fuel in nuclear reactors?

A: **uranium** (accept: **U**)

44. Uranium enrichment includes a compound called "hex", which consists of one atom of uranium and six of what element? This non-metal was also found in the first synthesized noble gas compound.

A: **fluorine** (accept: **F**)

Linked Set of 6

45. Running from Hardisty, Alberta to Steele City, Nebraska and then forking into two routes, what pipeline system has had its "XL" phase cancelled by Joe Biden?

A: **Keystone** Pipeline System

46. What type of structure includes a wedge-shaped piece at the apex called a keystone?

A: **arch**way

47. The logo of what fast food chain is called the Golden Arches?

A: **McDonald's**

48. What scandal led to the resignation of John A. Macdonald?

A: **Pacific** Scandal

49. Bolivia and Peru fought against what country in the War of the Pacific?

A: **Chile**

50. What large region covers the northern third of Chile and is the driest desert in the world?

A: **Atacama** desert

THIRD QUARTER

Splits: Canadian Arts & German Cities

Canadian Arts

51. In what city is Canada's oldest ballet company?

A: **Winnipeg**

52. Angela Hewitt, Oscar Peterson, and Glenn Gould are all virtuosos on what instrument?

A: **piano**

53. Who is the only Canadian-born winner of the Pritzker Prize for architecture?

A: Frank **Gehry**

54. What is the home province of artists Bill Reid and Emily Carr?

A: **British Columbia** (accept: **BC**)

German Cities

55. What capital of Saxony was heavily firebombed during World War II?

A: **Dresden**

56. The European Central Bank is headquartered in what city, Germany's financial capital?

A: **Frankfurt**

57. What German city is the subject of a joke conspiracy theory that claims it doesn't exist?

A: **Bielefeld**

58. The original Oktoberfest takes place in what capital of Bavaria?

A: **Munich**

Set of 3: Plays in Fiction

59. What TV show's second season features *Our Life*, a thinly-disguised theatrical adaptation of the characters' actual lives written by Lexi Howard?

A: **Euphoria**

60. In what play is a performance of *Pyramus and Thisbe* staged by characters such as Francis Flute and Nick Bottom?

A: A **Midsummer Night's Dream**

61. The opening night of *Spectacular Spectacular* is the climactic event in what 2001 Baz Luhrmann film?

A: **Moulin Rouge**

Jailbreak

62. In what year did Canadian troops take Vimy Ridge during World War I?

A: **1917** (prompt on: '17)

63. Participants called traceurs ["trah-SURS"] attempt to move between two points as efficiently as possible in what hobby, commonly associated with performing jumps and stunts in urban environments?

A: **parkour** (accept: **free running**)

64. Between the core and the crust lies what layer of the Earth?

A: Earth's **mantle**

65. What birds are heard "still bravely singing" in the poem "In Flanders Fields"?

A: **larks**

66. In the NFL, how many minutes are left in the half when a "warning" stops play?

A: **two**

67. The Ethiopian Emperor Haile Selassie is revered by followers of what religion that developed in 1930s Jamaica?

A: **Rastafarianism** (accept: **Rasta, Rastafari**)

68. What devices in cars often use a reaction of guanidine nitrate to rapidly produce nitrogen gas?

A: **airbags**

69. The Paldea region is the setting for what pair of Pokemon games released in 2022?

A: Pokemon **Scarlet** AND Pokemon **Violet**

70. Who led an expedition to the Tuamotu Islands on the raft *Kon-Tiki*?

A: Thor **Heyerdahl**

71. The words "nun", "gimel", "hei", and "shin" can be found on the sides of what die spun during Hanukkah?

A: **dreidel**

72. What marine mammals are also known as "unicorns of the sea"?

A: **narwhals**

73. In what novel do children born between 12 and 1 AM on the day of India's independence gain magical powers?

A: **Midnight's Children**

74. What country contains Aconcagua, the highest mountain in South America?

A: **Argentina**

75. What letter is present in “fridge” but not “refrigerator”?

A: **d**

FOURTH QUARTER

Jackpot

76.

Part 1: Who worked with their older sibling to co-write the novel *Rebels: City of Indra*?

Part 2: In 2019, this person unsuccessfully attempted to trademark the phrase "Rise and Shine", as well as a version of the phrase in which "Rise" and "Shine" were each spelled with three "I"s, after a video of her singing to her daughter went viral.

Part 3: This woman's namesake cosmetics line has released collaborations with the *Batman* and *Nightmare on Elm Street* franchises, and got its start selling wildly popular lip kits.

Part 4: This businesswoman and influencer has two children with Travis Scott and has an older sister named Kendall.

A: **Kylie Jenner** (prompt on: Jenner)

Streak

80. Give up to all of the official languages of the United Nations.

A: **Arabic**
Simplified **Chinese** (accept: **Mandarin** Chinese)
English
French
Russian
Spanish

Set of 4: Rivers

83. Bamako can be found on what West African river?

A: **Niger** River

84. People who drank from what river would forget all their past memories in Greek myth?

A: River **Lethe** ["LEE-thee"]

85. The name for what cradle of civilization translates roughly as “between the rivers”?

A: **Mesopotamia**

86. What word refers to the slightly salty water found in the mixture of river water with sea water in estuaries?

A: **brackish**

14-Part Blitz

87. The Latin phrase "Tempus fugit" translates to what English expression?

A: **time flies**

88. The MacLaurin series is a special case of what mathematical series, which can approximate a function on an interval by using its derivatives?

A: **Taylor** series

89. Introduced alongside the scientist, the guardian angel, and the shapeshifter, what type of crewmate is able to use the vents in *Among Us*?

A: **engineer**

90. In an argument against believing in God, what kind of object did Bertrand Russell suggest might be orbiting somewhere between Earth and Mars?

A: **teapot**

91. Who is the host of the American version of *Family Feud*?

A: Steve **Harvey**

92. What country joined Egypt to create the United Arab Republic in 1958?

A: **Syria**

93. What Russian centre has worn number 71 for the Pittsburgh Penguins since 2006?

A: Evgeni **Malkin**

94. One of the mother sauces of French cuisine, what sauce is made by combining milk with a roux ["roo"]?

A: **Béchamel** sauce

95. Who opens with the lyric "In the time of chimpanzees I was a monkey" on their 1993 single "Loser"?

A: **Beck**

96. Of the three primary trig functions, only cosine is positive in which quadrant?

A: **fourth** quadrant

97. For what team did A.J. Ouellette score two touchdowns in a 24-23 victory over the Winnipeg Blue Bombers in the 109th Grey Cup in 2022?

A: **Toronto Argonauts** (accept either underlined part)

98. The title character and his friend Govinda seek spiritual enlightenment in what novel by Hermann Hesse?

A: **Siddhartha**

99. *Sons of Anarchy*, *The Americans*, and *It's Always Sunny in Philadelphia* all aired on what TV network?

A: **FX**

100. What name is given to toes on dogs' feet that do not touch the ground?

A: **dew claws**