



2023 Summer Open (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: Lionel of Antwerp unsuccessfully wrote legislation trying to prevent cultural assimilation in what place? The characters Eudox and Irenius were created by Edmund Spenser to discuss the culture and history of this place.
Part 2: This place followed Brehon Law during the medieval period, and the Papal Bull Laudabiliter allegedly justified Richard De Clare's conquest of it.
Part 3: Each July, this island is home to a controversial celebration that originally commemorated the Battle of Aughrim and is called "The Twelfth".
Part 4: The Battle of the Boyne was a major defeat for the Jacobites on this island. A 1798 rebellion led to this island being absorbed into the United Kingdom.
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: **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 term refers to the shape one's mouth and lips are placed in to play a woodwind instrument?

A: **embouchure**

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 involves a compound called "hex", which consists of one atom of uranium and six of what element?

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: **archway**

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. In what city was the Beaver Hall group of artists founded?

A: **Montreal**

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. What major manufacturing centre is home to the headquarters of Porsche and Mercedes Benz, and is the capital of Baden-Wurttemberg?

A: **Stuttgart**

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. During Act 5 of *A Midsummer Night's Dream*, several characters poorly perform a play about what pair of ill-fated mythological lovers?

A: **Pyramus** AND **Thisbe**

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. What French-derived term refers to people who participate in parkour?

A: **traceurs** ["tra-SUR"]

64. What two-word term refers to the formation of new oceanic crust at mid-ocean ridges?

A: **seafloor spreading**

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

A: **larks**

66. An NFL referee puts one hand on their head to call what penalty, which can be avoided by "checking in" prior to a play?

A: **ineligible receiver downfield** (accept: **ineligible downfield**)

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 his 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**