



2023 Summer Open (T3) – Pack 10

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PACK 10

FIRST QUARTER

4-Part Blitz

1. What Formula 1 racetrack has a name meaning "between the lakes"?
A: **Interlagos**
2. What fifth-generation Nintendo console features a three-pronged controller?
A: **Nintendo 64** (accept: **N64**)
3. Whose Twitter bio states that she was "Born at 375 parts per million"?
A: Greta **Thunberg** ["TOON-burg"] or ["TOON-bear-ee"]
4. Paradoxical undressing is a symptom of the extreme form of what condition, whose mild form begins when body temperature drops below 35 degrees?
A: **hypothermia**

Jackpot

5.
Part 1: Who depicted trees in the shape of a single leaf in works like *The Search for the Absolute*, *Fire*, and *The Giant*?
Part 2: This artist filled the iris of an eye with a light blue cloudy sky in *The False Mirror*, and in another work, used a similar cloudy sky to fill in the silhouette of a bird.
Part 3: This artist frequently depicted familiar objects in unusual contexts, such as painting a locomotive coming out of a fireplace.
Part 4: In *The Son of Man*, this Belgian surrealist depicted a man wearing a bowler hat whose face is obscured by a green apple, and in *The Treachery of Images*, he painted a pipe above the claim "This is not a pipe".
A: René **Magritte**

Set of 4: Units of Measurement

9. To the nearest tenth, how many miles are in a kilometre?
A: **0.6** (accept: **six tenths**)
10. 4 gills or 2 cups are equal to what unit of measurement?
A: US liquid **pint** (reject: **imperial pint**, **US dry pint**)
11. Equal to six feet, what imperial unit is used for measuring the depth of water?
A: **fathom**

12. What three units were the base of the first coherent metric system, later superseded by the metre-kilogram-second system?

A: **centimetre** AND **gram** AND **second**

Set of 4: Baking

13. Used to make croissants and danishes, what type of pastry consists of multiple layers of dough separated by butter?

A: **laminated** pastry (accept: **laminated** dough)

14. What type of cake gets its name from the amount of each of its four ingredients used to make it?

A: **pound** cake

15. A species in the genus *Fructilactobacillus* is responsible for the distinct flavour of sourdough traditionally produced in what city?

A: **San Francisco**

16. What type of baking appliance is the signature product of KitchenAid?

A: **stand mixer** (prompt on: mixer)

Double Jumps

17. In 2021, who prominently sampled Rick James's song "Super Freak" on her track "Super Freaky Girl"? She previously had hits with "Starships" and "Anaconda".

A: Nicki **Minaj**

18. Minaj references several powerful female heroes, including Storm, Lara Croft, and the title character from *Street Fighter* in the lyrics to what 2018 hit?

A: **"Chun-Li"**

19. What German word referred to the idea that the German people need vast amounts of territory to flourish, used by the Nazis to justify conquests?

A: **Lebensraum**

20. What German term refers to the medieval eastward expansion of German settlers, which inspired the concept of Lebensraum?

A: **Drang nach Osten**

Set of 5: Horror

21. Amie Donald portrayed what titular character, an artificially intelligent doll, in a campy 2022 horror movie?

A: **M3GAN** ["MEH-gan"]

22. What video game series features a haunted pizza restaurant where animatronics like Bonnie and Chica attack the player while they work the night shift?

A: **Five Nights at Freddy's** (accept: **FNaF**)

23. Books like *'Salem's Lot*, *Cujo*, and *The Shining* were written by what horror author?

A: Stephen **King**

24. What state is home to Leatherface, who commits several chainsaw massacres in a namesake horror series?

A: **Texas**

25. Who wrote and directed the 2023 horror comedy *Beau is Afraid*, and earlier directed *Midsommar* and *Hereditary*?

A: Ari **Aster**

SECOND QUARTER

Splits: Early Feminism & Physical Forces

Early Feminism

26. What philosopher, the mother of Mary Shelley, authored *A Vindication of the Rights of Woman*?

A: Mary **Wollstonecraft**

27. What feminine term was given to activists such as Emily Davison and Emmeline Pankhurst who participated in campaigns to gain women the right to vote?

A: **suffragettes** (reject: suffragist)

28. Which Canadian province was the first to give White women the right to vote?

A: **Manitoba**

29. Lucretia Mott spoke at what 1848 women's rights convention organized by Elizabeth Cady Stanton and Susan B. Anthony?

A: **Seneca Falls** Convention

Physical Forces

30. What operation is performed between velocity and magnetic field when calculating the magnetic force?

A: **cross** product (accept: **vector product**) (prompt on: product, multiplication)

31. The linear relationship between a stretch or compression and the restoring force is described in what law?

A: **Hooke's** law

32. Gluons carry which of the four fundamental forces?

A: **strong** nuclear force (accept: **strong interaction**)

33. What term is used to describe forces such as gravity where the work done by the force on an object travelling between two positions is independent of the path taken?

A: **conservative** force

Set of 3: Also a Poker Term

34. What word can refer to faking an injury in sports or to the first three cards revealed in Texas Hold'em?

A: **flop**

35. The Tanner household is central to what '90s TV series that spurred a late 2010s sequel?

A: **Full House**

36. What word can refer to redness of the face or to a poker hand of five cards of the same suit?

A: **flush**

Set of 4: Chemical Formulas

37. NaHCO_3 is the chemical formula for what compound?

A: **sodium bicarbonate** (accept: **baking soda**, **bicarbonate of soda**)

38. " NH_4 plus" is the chemical formula of what positively charged ion?

A: **ammonium** (reject: **ammonia**)

39. What acid has the formula CH_3COOH and is combined with water to form vinegar?

A: **acetic** acid (accept: **ethanoic** acid)

40. How many atoms of nitrogen are in a molecule of laughing gas, also known as nitrous oxide?

A: **two**

Double Jumps

41. Membranophones and idiophones are two groups of what class of musical instrument that are hit or struck?

A: **percussion** instruments

42. Colin Currie is the dedicatee of the Percussion Concerto of what composer, whose Violin Concerto won the 2010 Pulitzer Prize for Music?

A: Jennifer **Higdon**

43. Who founded the philosophical system of transcendental idealism in works like *Critique of Pure Reason*?

A: Immanuel **Kant**

44. Name either of the followup critiques Kant published after *Critique of Pure Reason*.

A: *Critique of **Practical Reason***

OR *Critique of **Judgment*** (accept: *Critique of the **Power of Judgment***)

Linked Set of 6

45. With 755, who has the second most career MLB home runs?

A: Hank **Aaron**

46. In the Bible, who was the younger brother of Aaron?

A: **Moses**

47. What body of water did the Israelites, led by Moses, cross in the Book of Exodus?

A: **Red Sea**

48. The Mediterranean Sea is connected to the Red Sea by what artificial waterway?

A: **Suez Canal**

49. Secretary of State for External Affairs in the government of Louis St. Laurent, who won the 1957 Nobel Peace Prize for his part in resolving the Suez Canal Crisis?

A: Lester Bowles **Pearson** (accept: "Mike" **Pearson**)

50. What is the three-letter code for Lester B. Pearson International Airport in Toronto?

A: **YYZ**

THIRD QUARTER

Splits: Canadian Novelists & Ancient China

Canadian Novelists

51. Who wrote *The Watch that Ends the Night*, as well as *Barometer Rising* and *Two Solitudes*?

A: Hugh **MacLennan**

52. Who wrote *Beatrice and Virgil* and *The High Mountains of Portugal* after the success of his novel *Life of Pi*?

A: Yann **Martel**

53. What author's *The Cunning Man* was the second in his unfinished Toronto Trilogy? This author opened his Deptford Trilogy with *Fifth Business*.

A: Robertson **Davies**

54. What author wrote about Emily of New Moon, an orphan who grew up in Prince Edward Island much like her other character Anne of Green Gables?

A: Lucy Maud **Montgomery**

Ancient China

55. Yu the Great was the founder of what semi-legendary first dynasty of China that preceded the Shang dynasty?

A: **Xia** ["shyah"] Dynasty

56. During the Shang period, divination was often performed using bones known by what name?

A: **oracle** bones

57. 476 BC saw the beginning of what tumultuous period of Chinese history that ended with the accession of Emperor Qin ["chin"] Shi Huang?

A: **Warring States** Period

58. Apart from Beijing, give the modern names of any of the other three of the Four Great Ancient Capitals of China.

A: **Nanjing** (accept: **Nanking**) OR **Luoyang** ["low-YAHNG"] OR **Xi'an** ["shee-AHN"]

Set of 3: Spelling

59. The name of the Greek muse of dance, spell Terpsichore ["terp-SICK-uh-ree"].

A: **T-E-R-P-S-I-C-H-O-R-E**

60. A mineral that along with opal is October's birthstone, spell tourmaline ["TOOR-muh-leen"].

A: **T-O-U-R-M-A-L-I-N-E**

61. An orange-fleshed melon, spell cantaloupe.

A: **C-A-N-T-A-L-O-U-P-E**

Jailbreak

62. Insurance agent Tim Goodman befriends the titular Pokemon in what 2019 film?
A: **Detective Pikachu** (accept: *Pokemon **Detective Pikachu**, Great **Detective Pikachu**)*
63. Who was the host of the CBS Evening News from 1962 to 1981?
A: Walter **Cronkite**
64. What toxic herbicide was sprayed onto Vietnamese forests by the American military, causing deforestation, cancer and birth defects?
A: **Agent Orange**
65. What kind of function is the inverse of an exponential function?
A: **logarithmic function** (accept: **logarithm**)
66. What "B"-word refers to sand traps found on golf courses?
A: **bunkers**
67. What is the capital of New York State?
A: **Albany**
68. Comedic interludes called kyogen feature throughout performances of what Japanese genre of plays?
A: **noh**
69. What vegetable is described as "a big lump with knobs" in a 2022 viral video?
A: **corn**
70. The name of what instant messaging service also means to avoid work?
A: **Slack**
71. The word "smorgasbord" is derived from what language?
A: **Swedish**
72. The Earth's mantle is exposed in what national park's Tablelands on the west coast of Newfoundland?
A: **Gros Morne National Park**
73. *The Left Hand of Darkness* was written by what science fiction author?
A: Ursula K. **LeGuin**
74. How many coloured square stickers are on a standard Rubik's cube?
A: **54**
75. A basic ZIP code has how many digits?
A: **5**
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FOURTH QUARTER

Jackpot

76.

Part 1: A cormorant holding a branch is a mythical symbol of what city? In 2021, this city became only the third to lose UNESCO World Heritage Site status, after it agreed to build a waterfront stadium near its "Three Graces".

Part 2: After building the world's first commercial floating dock, this city boomed as a result of the slave trade, and then by importing cotton for use in the textile industry. This coastal city was an endpoint of the world's first intercity railway.

Part 3: Residents of this city are known as "Scousers". The soccer teams that play in this city's stadiums of Goodison Park and Anfield face off in Merseyside derbies.

Part 4: This Northern English city was the birthplace of The Beatles.

A: **Liverpool**

Streak

80. Name up to all of the countries that contain part of the Atlas mountains.

A: **Morocco**
Algeria
Tunisia

81. Name up to all five elements found in DNA.

A: **hydrogen** (accept: **H**)
carbon (accept: **C**)
nitrogen (accept: **N**)
oxygen (accept: **O**)
phosphorus (accept: **P**)

Set of 3: Earthquakes

84. What has replaced the Richter scale as the standard measurement of an earthquake's magnitude?

A: **moment magnitude** scale (accept: **MMS**)

85. Name either of the two countries predominantly affected by a magnitude-7.8 earthquake in February of 2023.

A: **Turkey** OR **Syria**

86. The point on the Earth directly above where an earthquake originates has what name?

A: **epicentre**

14-Part Blitz

87. On the December solstice, the Sun reaches its zenith above what line of latitude?

A: **Tropic of Capricorn**

88. What poet portrayed seven pool players at the Golden Shovel in the poem "We Real Cool"?

A: Gwendolyn **Brooks**

89. Name either of the two NHL teams that jointly hold the record for being the oldest team never to have won a Stanley Cup.

A: **Buffalo Sabres** (accept either underlined part)

OR **Vancouver Canucks** (accept either underlined part)

90. What "R"-word refers to ice that forms on surfaces from the freezing of supercooled water?

A: **rime**

91. What is the expanded form of $2x$ plus 6 all squared?

A: **$4x^2 + 24x + 36$** [" $4x$ squared plus $24x$ plus 36 "] (accept with the terms in any order)

92. What event spurred a peak in the popularity of flagellantism, the process of whipping oneself as a form of Christian penance? This event killed 30 to 60 percent of Europe's population.

A: **Black Death** (prompt on: Bubonic Plague)

93. A set of rapids named for their equine appearance lent their name to what city in the Canadian arctic?

A: **Whitehorse**

94. What 1968 song by Elvis Presley was remixed in 2002 by Junkie XL? In its lyrics, the title is followed by the line "a little more action, please."

A: "A **Little Less Conversation**"

95. What four-word question does a German officer ask his colleague Hans in a sketch by Mitchell and Webb?

A: **Are we the baddies?**

96. Accompanied by Roomie and Boyinaband, what YouTuber released the song "Congratulations" in 2019 as his second diss track against Indian record label T-Series?

A: **PewDiePie** (accept: Felix Kjellberg)

97. What four-letter word describes a predator occupying the highest trophic level in a food chain?

A: **apex**

98. What word means the study of flags?

A: **vexillology**

99. Enya sang about the "flow" of what large river that passes through Colombia and Venezuela?

A: **Orinoco** River

100. Alexis Ohanian was the executive chairman and co-founder of what company?

A: **Reddit.com**