



2022-23 High School Season Opener (T1) – Pack 7

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PACK 7

FIRST QUARTER

6-Part Blitz

1. In a chemistry lab, what mostly-enclosed region with extra ventilation is used for experiments that could produce harmful gases?

A: **fume hood** (accept: **fume cupboard**, **fume closet**)

2. What is the character limit for a tweet?

A: **280** characters

3. What is the *nom de guerre* of notorious Russian mercenary Dimitry Utkin, and also the surname of the composer of *Die Meistersinger von Nuernberg*?

A: **Wagner**

4. Both statements have to be true for what logical operator to return true?

A: **and**

5. If a right triangle has leg lengths 7 and 24, how long is its hypotenuse?

A: **25**

6. What author used a post-apocalyptic Labrador as the setting for his novel *The Chrysalids*?

A: John **Wyndham**

Set of 4: Hats

7. Whose human companion is the Man in the Yellow Hat?

A: Curious **George**

8. What part of a drum kit consists of a pair of cymbals played by a foot pedal?

A: **hi-hat**

9. Sherlock Holmes wears what kind of hat?

A: **deerstalker**

10. Phrygian caps are worn by what blue comic characters, created by the Belgian Peyo?

A: The **Smurfs** (accept: Les **Schtroumpfs**)

Duel: African Landmarks

11. (First desk): What location, near Thebes, contains the tombs of dozens of Egyptian pharaohs cut into cliffs?

A: **Valley of the Kings**

12. (Second desk): The Djinguereber [“Jin-ger-EBB-er”] Mosque and Sankoré University are landmarks in what city, formerly a cultural and trade centre of the western Sahara?

A: **Timbuktu**

13. (Third desk): What flat-topped mountain overlooks Cape Town?

A: **Table** Mountain

14. (Fourth desk): The Shona people built what massive stone city which now gives its name to the country it is found in?

A: **Great Zimbabwe**

15. (First desk): What body of water was created by the Akosombo Dam, which generates much of Ghana’s electricity, when it was built in 1965?

A: **Lake Volta** (prompt on: Volta)

16. (Second desk): The Blue Nile meets the White Nile at what major city?

A: **Khartoum**

17. (Third desk): On the border between Zimbabwe and Zambia, the Zambezi River goes down what waterfall, the world’s largest?

A: **Victoria** Falls

18. (Fourth desk): One of the world’s largest animal migrations happens annually in what region of savannah in northern Tanzania?

A: The **Serengeti**

Jackpot

19.

Part 1: A composer from what country wrote a suite that includes depictions of a gnome, an old castle, and the Tuileries [“too-le-REE”] Garden?

Part 2: A Shrovetide fair is the setting for a ballet from this country in which the title puppet comes to life.

Part 3: A frantic run of sixteenth notes imitates the title creatures of an interlude by a composer from this country, titled “The Flight of the Bumblebees”. Another composer from this country wrote *Pictures at an Exhibition*.

Part 4: The Five were a group of composers from this country, including Modest Mussorgsky and Nikolai Rimsky-Korsakov.

A: **Russia** (accept: **Russian** Empire)

4-Part Blitz

22. What country is the novel *July's* ["JOO-leez"] *People* from, written by Nadine Gordimer?

A: **South Africa**

23. If your net income is positive, you are said to be "in" what colour, contrasted with being "in the red"?

A: in the **black**

24. In a famous YouTube video, a song by what rapper is mashed up with the theme song to Thomas the Tank Engine?

A: The **Notorious B.I.G.** (accept: **Biggie** Smalls, Christopher **Wallace**)

25. What woman suffered fatal injuries in a Parisian tunnel on August 31st, 1997?

A: Princess **Diana**, Princess of Wales (accept: Diana Frances **Spencer**)

SECOND QUARTER

Splits: At the Grocery Store & Indian Leaders

At the Grocery Store

26. Plum, beefsteak and cherry are types of what culinary vegetable, which is botanically a fruit?

A: **tomato**

27. What word refers to a counter at which fresh meats and cheeses are sold?

A: **delicatessen**

28. What three-letter initialism refers to the four-digit codes found on produce?

A: **PLU**

29. In 2017, what company offered Canadians \$25 gift cards as compensation for a long-running price-fixing scheme on bread?

A: **Loblaws** (accept: **Loblaw** Companies Limited)

Indian Leaders

30. What emperor conquered Kalinga, then converted to Buddhism and renounced war, as leader of the Mauryan Empire?

A: **Ashoka** the Great

31. Who was the first Prime Minister of India?

- A: Jawaharlal **Nehru**
32. Who led the Salt March and the Quit India Campaign as part of his peaceful opposition to British rule?
- A: Mahatma **Gandhi** (accept: Mohandas **Gandhi**)
33. The Mughal Empire reached its greatest extent under what Islamist emperor of the 17th century?
- A: **Aurangzeb** (accept: **Alamgir**)

Set of 3: Demons

34. What is the male equivalent of the demon called a succubus?
- A: **incubus**
35. Who wrote *Angels and Demons* and later followed it with *The Da Vinci Code*?
- A: Dan **Brown**
36. What physical law would be violated by the thought experiment known as Maxwell's Daemon?
- A: **second law of thermodynamics**

Streaks

37. Name up to all three 21st-century General Secretaries of the Chinese Communist Party.
- A: **Jiang** Zemin (accept: Zemin **Jiang**), **Hu** Jintao (accept: Jintao **Hu**), **Xi** Jinping (accept: Jinping **Xi**)
38. These characters are searching for a heart, a brain, and courage. Name up to all three of the companions that Dorothy and Toto meet along the Yellow Brick Road in *The Wizard of Oz*.
- A: the **Tin Man**, the **Scarecrow**, the **Cowardly Lion** (prompt on: **Lion**)

Set of 4: Bones

40. What Canadian city was once called Pile-of-Bones?
- A: **Regina**
41. What is the upper arm bone called?
- A: **humerus**
42. The collarbone has what scientific name?
- A: **clavicle**
43. What American author included a character named Brom Bones in *The Legend of Sleepy Hollow*?

A: Washington **Irving**

Jackpot

44.

Part 1: According to the Quran but not the Bible, what man had an evil wife and ended his most famous journey at Mount Judi? He also names the 71st surah of the Quran.

Part 2: This man appears in a strange story where he is seen drunk and naked by one of his sons, and then curses his grandson Canaan as punishment.

Part 3: This man was the last of the antediluvian patriarchs, a grandson of Methuselah and the father of Shem, Ham, and Japheth. Christian tradition says he took refuge on Mount Ararat.

Part 4: As God destroyed the world with a flood, this man saved his family and two of every animal on his namesake Ark.

A: **Noah** (accept: **Nuh**)

4-Part Blitz

47. What term refers to the use of a comma to join two independent clauses, often considered a mistake?

A: comma **splice** (accept word forms)

48. Many scientists argue that the Holocene epoch has ended and we are now in what geological epoch, characterized by widespread human impact on the Earth?

A: **Anthropocene** epoch

49. The referee makes the shape of a rectangle with their hands to signal what process in soccer?

A: **V.A.R.** (accept: **Video Assistant Review**) (prompt on: replay, video review)

50. Created by Lyndon "Duke" Hanson in 2002, what brand of comfort footwear can be accessorized with "Jibbitz" and is described as a "foam clog"?

A: **Crocs**

THIRD QUARTER

Splits: French Physicists & Albums of 2022

French Physicists

51. Who proposed that any particle with mass also behaves as a wave, and gives his name to the associated wavelength?

A: Louis **de Broglie** ["de BROY"]

52. Who proposed a law relating the force of attraction between two wires to their lengths and the intensity of their currents, and also gives his name to the S.I. unit for current?

A: Andre-Marie **Ampere**

53. In the Pantheon in Paris in 1851, who demonstrated the rotation of the earth using a 67-metre-long pendulum?

A: Leon **Foucault**

54. Pierre and Marie Curie shared their 1903 Nobel Prize in Physics with what other man, who names the S.I. unit for radioactivity?

A: Henri **Becquerel**

Albums of 2022

55. "You're on Your Own, Kid", "Mastermind", and "Karma" all appear on what album by Taylor Swift?

A: ***Midnights***

56. *Laurel Hell*, which includes the song "Working for the Knife", was released in February by what Japanese-American singer-songwriter?

A: **Mitski Miyawaki** (accept either underlined part) (accept: Mitsuki **Laycock**)

57. What artist used a dramatically aged photo of himself as the cover for his album *Dawn FM*, a follow-up to his hugely successful *After Hours*?

A: The **Weeknd** (accept: Abel **Tesfaye**)

58. *Un Verano Sin Ti*, which has spent 24 weeks at number 1 on Billboard's Top Latin Albums, was recorded by what Puerto Rican singer?

A: **Bad Bunny** (accept: Benito Antonio **Martinez** Ocasio)

Double Jumps

59. How many carbon atoms are in a molecule of acetone, glycerol, or propane?

A: 3

60. What other three-carbon molecule is the end product of glycolysis?

A: pyruvate (accept: pyruvic acid)

61. Who drew a moustache over a postcard image of the Mona Lisa as one of his Readymades?

A: Marcel Duchamp

62. Duchamp's *In Advance of the Broken Arm* consists entirely of what object?

A: snow shovel (prompt on: shovel)

63. What is the study of securely transmitting information between two or more parties, sometimes by means of a cipher?

A: cryptography (accept: cryptology)

64. What type of one-way cryptographic functions, examples of which include MD5 and SHA-256, are used to protect encrypted information from being decrypted?

A: cryptographic hash function (accept: cryptographic hashing function, C.H.F.)

65. What country's history has included periods such as the Spring and Autumn, the Three Kingdoms, and the Cultural Revolution?

A: China

66. What period of Chinese history followed the Spring and Autumn period and ended with Qin Shi Huang's establishment of the Qin Dynasty in 221 B.C.?

A: Warring States period

Set of 3: Riddles

67. What sort of creature walks on four feet in the morning, two feet during the day, and three feet in the evening, according to a famous riddle told by the Sphinx?

A: human beings (accept clear equivalents)

68. What fictional character is the subject of a riddle whose answer is an egg, though nowadays the riddle is usually given as a nursery rhyme?

A: Humpty-Dumpty

69. What superhero has fought Edward Nigma, better known as the Riddler?

A: Batman

Linked Set of 6

70. Provide the last word of this quote by Jean-Jacques Rousseau: "Man is born free, and everywhere he is in [blank]."

A: **chains**

71. In which American state does a family of serial killers massacre people with a chainsaw in a 1974 horror film?

A: **Texas**

72. What river forms the border between Mexico and Texas?

A: **Rio Grande** ["REE-oh grand"]

73. What percentage of genetic material does a person share with each of their grandparents?

A: **25** percent (reject: one fourth, one quarter)

74. In 2015, what British pop singer released the album *25*?

A: **Adele** (accept: Adele **Adkins**)

75. For which James Bond movie did Adele record the theme song in 2012?

A: **Skyfall**

FOURTH QUARTER

4-Part Blitz

76. Known for its warm weather and beautiful beaches, what city, the largest in the Interior, sits on the shores of Okanagan Lake?

A: **Kelowna**

77. What was the name of Don Cherry and Ron McLean's first-intermission show on *Hockey Night in Canada*?

A: **Coach's Corner**

78. What word for dead and decaying meat is almost a homophone for something you might bring on a plane?

A: **carrion**

79. What is the name of Elon Musk's satellite internet service?

A: **Starlink**

Deep Dive

80. A secret plan called the Missionaria Protectiva and a society of superpowered women called the Bene Gesserit [“BEN-ee JESS-er-it”] were created in what 1965 novel by Frank Herbert?

A: **Dune**

The remaining questions deal with *Dune*.

81. Portrayed by Timothee Chalamet in the 2021 film adaptation, who is the main character of *Dune*?

A: **Paul** Atreides (accept: Paul **Muad’Dib**; prompt on: Atreides)

82. What group of people call the sandworms “Shai Hulud” and are the indigenous people of the planet Arrakis?

A: **Fremen**

83. Produced by the sandworms, what is the most valuable commodity in the *Dune* universe, used for faster-than-light travel and to gain superpowers?

A: **Spice** (accept: **Melange**)

84. What kind of organization is led by people called Bashars? Examples of these organisations include the Fish Speakers and the Sardukar.

A: **army** (accept: **military, armed forces**)

Set of 4: South Americans

85. What leader of the Social Convergence party failed in an attempt to amend Chile’s constitution in September of 2022, six months after being elected President?

A: Gabriel **Boric**

86. Who wrote the short story collection *Ficciones*, which includes “The Garden of Forking Paths” and “The Library of Babel”?

A: Jorge Luis **Borges**

87. At the Battle of Cerro Corá, what Paraguayan prime minister was killed?

A: Francisco **Solano López** (prompt on: Solano, Lopez)

88. The winner of the 2009 U.S. Open tennis tournament was what Argentine?

A: Juan Martín **del Potro** (prompt on: DelPo)

12-Part Blitz

89. What word can describe a type of internal combustion engine invented by Felix Wankel ["VAN-kel"] or a humanitarian club made up of people with high social standing?

A: **rotary**

90. What letter usually represents slope in the equation of a line?

A: **m**

91. A pitcher's teammates and coaches traditionally do not speak to them while the pitcher is in the process of achieving what feat?

A: throwing/pitching a **no-hitter** (accept: throwing/pitching a **perfect game**)

92. *Last Week Tonight* is hosted by what British-American comedian?

A: John **Oliver**

93. Who starred as the title character on *The Fresh Prince of Bel-Air*?

A: Will **Smith**

94. What odorless, poisonous gas is produced in incomplete combustion reactions?

A: **carbon monoxide** (accept: **CO**)

95. What war lasted from 1337 to 1453, despite its name?

A: **Hundred Years' War**

96. You will have 5 seconds. What two letters must be added to a word meaning "peaceful and compliant" to get a word meaning "home"?

A: **M** AND **I** (docile to domicile)

97. What does the N stand for on the gearshift of a car?

A: **neutral**

98. Which part of the body contains bones called metacarpals and phalanges?

A: **hands**

99. What video game studio has produced *Fallout 3* and onwards as well as *The Elder Scrolls*, including *Skyrim*?

A: **Bethesda** Game Studios

100. Who led Nova Scotia into Confederation and was briefly Prime Minister immediately before Wilfrid Laurier?

A: Charles **Tupper**