



## 2022-23 Post-Secondary Season Opener (T1) – Pack 3

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# PACK 3

## FIRST QUARTER

### 6-Part Blitz

1. "I still see your shadows in my room" is the opening line of what song by Juice Wrld?  
A: **"Lucid Dreams"**
2. What term is given to the splitting of a life cycle into haploid gametophytes and diploid sporophytes, common in all plants?  
A: **alternation of generations**
3. What treat is banned in the United States due to safety concerns about the small toys inside?  
A: **Kinder Surprise** Egg (accept: **Kinder Egg**)
4. A "peace" named for what region ended both the Eighty and Thirty Years' Wars?  
A: **Westphalia**
5. The Quechua word for "plain" is the origin of the name of what fertile grassland region of South America?  
A: the **Pampas**
6. The changing pitch of an ambulance's siren as it drives by is a result of what effect?  
A: **Doppler** effect

### Set of 4: Italian Cities

7. What city names a combination of vanilla, chocolate, and strawberry ice cream?  
A: **Naples**
8. What Italian city is closest to San Marino?  
A: **Rimini**
9. What city names and houses a piece of linen that some believe to be a facial imprint of Jesus?  
A: **Turin** (accept: **Torino**)
10. What city in New York shares its English name with a city in Sicily?  
A: **Syracuse**

## Jackpot

11.

Part 1: What metal's cation is found in Baeyer's reagent, which forms a bright magenta solution when dissolved? That reagent is this metal's permanganate.

Part 2: This metal is found alongside iodine in Lugol's solution, which acts as a catalyst in the decomposition of hydrogen peroxide, creating elephant's toothpaste.

Part 3: This metal is one of the three main components of plant fertilisers, alongside nitrogen and phosphorus.

Part 4: This alkali metal has atomic number 19 and symbol K.

A: **potassium** (accept: **K** on parts 1, 2 and 3) (prompt on: **K** on part 4)

## Double Jumps

14. Formulating "analytical psychology" caused what Swiss psychologist to move away from Sigmund Freud's theories?

A: Carl **Jung** ["Yoong"]

15. What two-word term was coined by Jung to explain how the human mind was dominated by things like anima and animus, instincts and archetypes?

A: **collective unconscious**

16. What connector, convenient because of its rotational symmetry, has replaced the micro-U.S.B. as the standard charging port on Android phones?

A: **U.S.B.-C** (accept: **U.S.B.** type **C**, type-**C U.S.B.**) (prompt on: **U.S.B.**)

17. What connector used for video output, now largely superseded by H.D.M.I., features three rows of five pins and screws on each side to help attach it?

A: **V.G.A.** port/connector

18. Queens Marie and Catherine of France came from what powerful Florentine family?

A: de' **Medici** family (accept: House of **Medici**)

19. What patron of Donatello and grandfather of Lorenzo the Magnificent was responsible for bringing the Medici family to prominence?

A: **Cosimo** de' Medici

20. What band is famous for hits like "Get Off My Cloud" and "Sympathy for the Devil"?

A: the **Rolling Stones** (prompt on: the **Stones**)

21. With a cake pictured on its cover, what Rolling Stones album features the songs "You Can't Always Get What You Want" and "Gimme Shelter"?

A: **Let It Bleed**

#### 4-Part Blitz

22. What is the majority religion in Kosovo?

A: **Sunni Islam** (accept either underlined part) (accept: Sunni **Muslim**)

23. What is the highest score possible on the S.A.T.?

A: **1600**

24. What artistic technique can be seen in *A Sunday Afternoon on the Island of La Grande Jatte*, where many individual small dots create a full image?

A: **pointillism**

25. What two forces become one above 246 giga-electron volts, the unification energy?

A: **electromagnetism** (accept: **electromagnetic** force/interaction) AND the **weak** nuclear force/interaction

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### SECOND QUARTER

#### Splits: Canada in World War I & Shakespearean Locations

##### Canada in World War I

26. Near what French commune was the Newfoundland Regiment almost completely destroyed during the first day on the Somme?

A: **Beaumont-Hamel**

27. What Conservative was Prime Minister during World War I?

A: Robert **Borden**

28. In June 1917, who succeeded Julian Byng as commander of the Canadian Corps?

A: Arthur **Currie**

29. Borrowing its name from the final period of the Napoleonic Wars, what final Allied offensive of World War I received a major contribution from the Canadian Corps?

A: One **Hundred Days**' Offensive (accept: Canada's One **Hundred Days**)

##### Shakespearean Locations

30. According to the Witches' prophecy, what geographical occurrence will signal the end of Macbeth's hold on power?

A: **Birnam Wood coming to Dunsinane** (accept clear equivalents) (prompt on partial answers)

31. What city is the home of the characters Bassanio, Portia, Antonio, and Shylock?

A: **Venice**

32. *A Midsummer Night's Dream* is primarily set in what city?

A: **Athens**

33. Richard III calls out "A horse! A horse! My kingdom for a horse!" while on what field, the location of the battle where he met his end?

A: **Bosworth** Field

#### **Set of 4: House**

34. Who wrote the short story *The Fall of the House of Usher*?

A: Edgar Allen **Poe**

35. What actor played Dr. Gregory House?

A: Hugh **Laurie**

36. In what sport do athletes attempt to position stones in the centre of the house?

A: **curling**

37. A Michael Dobbs novel was adapted into what first TV series produced for Netflix?

A: **House of Cards**

#### **Set of 4: Dances**

38. What dance is described as "You just gotta punch then crank back three times from left to right" in the 2007 song "Crank That"?

A: **Soulja Boy**

39. A group of old men are seen partying on a golf course in the music video for what 2019 song by Australian artist Tones and I?

A: **"Dance Monkey"**

40. The climax of what film consists of an unbroken 17-minute-long dance scene between Leslie Caron and Gene Kelly, set to the titular George Gershwin work?

A: *An* **American in Paris**

41. What singer released the 1987 single "I Wanna Dance with Somebody (Who Loves Me)"?

A: Whitney **Houston**

#### **Deep Dive**

42. The origins of what ancient civilization are detailed on the Narmer Palette, an ornamental piece for preparing cosmetics that is nearly 5000 years old?

A: Ancient **Egypt**

The remaining questions deal with Ancient Egypt.

43. What animal can be found twice at the top of the Narmer Palette and is associated with the goddesses Bat and Hathor?

A: **cows**

44. The battle of Kadesh, fought between Muwatalli II's Hittite Empire and the Egyptian New Kingdom of Rameses II, is considered history's largest battle fought with what kind of vehicles?

A: **chariots**

45. What part of the natural world was the centre of Akhenaten's religion and the main domain of Ra?

A: the **Sun**

46. Which fourth dynasty pharaoh was buried beneath the Great Pyramid of Giza?

A: **Khufu** (accept: **Cheops**)

#### **4-Part Blitz**

47. What temporal expression refers to stubble that grows over the course of the day?

A: **5 o'clock shadow**

48. What adjective refers to the latitudes that are neither tropical nor polar, as well as to moderate weather in general?

A: **temperate**

49. Generally defined as having a pKa of about -2 or lower, what term is used to describe acids that dissociate entirely in aqueous solution?

A: **strong** acids

50. What composer left instructions for the musicians to leave the stage while the fourth movement was still going in his *Farewell* symphony?

A: Franz Joseph **Haydn**

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### **THIRD QUARTER**

#### **Splits: Monsters & Words Ending in "-type"**

##### **Monsters**

51. What author created the monster Shoggoth in the novella *At the Mountains of Madness*, as part of his Cthulhu mythos?

A: H.P. **Lovecraft**

52. The toddler Boo, Sulley, and Mike Wazowski are the central characters in what 2001 Pixar film?

A: **Monsters Inc.**

53. "I was working in the lab late one night" is the opening line of what 1962 song by Bobby Pickett, popular every year around Hallowe'en?

A: **"Monster Mash"**

54. Featuring characters like Mothra, Gamera and Godzilla, what term meaning "strange beast" gives its name to a genre of post-World War II Japanese monster films?

A: **Kaiju**

### **Words Ending in "-type"**

Give each word being defined. All answers will end in "-type".

55. The physical expression of an individual's genetic material.

A: **phenotype**

56. A symbol, idea, or motif that recurs frequently, even in unrelated stories.

A: **archetype**

57. An image created using the first publicly available process for photography, named for its French inventor.

A: **daguerreotype**

58. An organized arrangement of all of the chromosomes of an organism.

A: **karyotype**

### **Set of 3: Food in Literature**

59. What sweet does the White Witch use to drug Edmund in *The Lion, the Witch and the Wardrobe*?

A: **Turkish delight**

60. What food did God give the Israelites while they travelled through the desert? It's homophonous with the blue bar of magical power used in many video games.

A: **mana**

61. Tripe, toast, and earwax are among the many varieties of what magical treats?

A: Bertie Bott's **Every-Flavour Beans** (accept: **Bertie Bott's Beans**) (prompt on: Beans, Bertie Bott's)

### Set of 4: Quadratic Functions

For all questions in this category, consider the quadratic equation in factored form  $y = x + 2$  times  $x - 6$ . You will have 5 seconds for each question.

62. What is the value of  $y$  when  $x$  equals 10?

A: **48**

63. What is the coefficient of the linear term when the equation is written in standard form?

A: **-4**

64. What is the minimum  $y$ -value of the equation?

A: **-16**

65. What is the  $y$ -intercept of the graph?

A: **(0, -12)**

### Set of 3: Waterfalls

66. In what country is the world's highest waterfall, Angel Falls?

A: **Venezuela**

67. The world's three largest waterfalls by flow rate are all located in what country?

A: **Democratic Republic** of the **Congo** (accept: **D.R.C.**) (reject: Republic of the Congo)

68. The Montmorency Falls are located just outside what Canadian city?

A: **Quebec** City

### Jackpot

69.

Part 1: What city contained a social class known as the "emancipists", whose status was elevated by Governor Lachlan Macquarie ["LOCK-lan mak-WAHR-ee"], the man credited for the modern design of the city?

Part 2: Ku-Ring-Gai Chase National Park extends out of this city towards the northwest.

Part 3: Port Jackson is the natural harbour of this city, early residents of which arrived on the First Fleet.

Part 4: The most famous work of Jorn Utzon ["YON OOT-sun"] is in this city, which also contains Bondi ["BOND-eye"] Beach and Botany Bay.

A: **Sydney**



## Shootout

72.

S1. Released on October 25th, 2022, what game sees the player control a nation from 1836 to 1936 and is the latest game from Paradox Interactive?

A: **Victoria 3**

S2. What novel follows the 108 heroes as they rebel against the government and then help it fight against nomads from the north?

A: **Water Margin** (accept: **All Men Are Brothers**, **Outlaws of the Marsh**)

S3. Which nucleobase is present in D.N.A. but not in R.N.A.?

A: **thymine** (prompt on: T)

S4. In a period often referred to as the "Babylonian Captivity" of the Papacy, in what French city did Popes reside for most of the 14th century?

A: **Avignon**

S5. What party game involves lists of topics numbered 1 to 12, and an icosahedral die with a different letter on each side?

A: **Scattergories**

S6. What "First Lady of Song" was a renowned scat singer?

A: Ella **Fitzgerald**

S7. What large island lies immediately south of Corsica?

A: **Sardinia**

S8. If a number is divisible by both 2 and 3, then it is also divisible by what larger number?

A: **6**

S9. Who is the heir to the British throne?

A: Prince **William**, Prince of Wales (prompt on: Prince of Wales)

S10. The crop formerly known as rapeseed is now called what?

A: **canola**

S11. In soccer, what position is found between defenders and forwards?

A: **midfielders**

S12. High-school teacher and payload specialist Christa McAuliffe died aboard what vehicle?

A: Space Shuttle **Challenger** (prompt on: space shuttle)

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## FOURTH QUARTER

### 4-Part Blitz

76. Directed by Robert Eggers, what black-and-white movie stars Willem Dafoe and Robert Pattinson as wickies working on a small island off the New England coast?

A: *The **Lighthouse***

77. What word can refer to a party in the parking lot of a sports stadium or to driving dangerously close behind another car?

A: **tailgate** (accept word forms)

78. What kind of makeshift device is wrapped tightly around a limb to stop it from bleeding by applying pressure?

A: **tourniquet**

79. In what discipline of figure skating did Tessa Virtue and Scott Moir compete?

A: **ice dance** (accept word forms for "dance")

### Streaks

80. FAANG is an acronym for five of the largest technology companies in the world. Name up to all five.

A: **Facebook** (accept: **Meta**), **Apple**, **Amazon**, **Netflix**, **Google** (accept: **Alphabet**)

82. Since taking power in the 2010 election, the Conservative Party of the United Kingdom has had five leaders who have been Prime Minister. Name up to all five.

A: David **Cameron**, Theresa **May**, Boris **Johnson**, Liz **Truss**, Rishi **Sunak**

### Set of 4: Highways

85. What two-word term do the British use for a highway whose two directions are separated by a median?

A: **dual carriageway**

86. With its name used in a 1946 hit song and 1960s TV series, what numbered American highway stretches from Chicago to Los Angeles?

A: Route **66**

87. Which American president established the Interstate Highway System?

A: Dwight **Eisenhower**

88. As referenced in the former name of an arena, Mile One Centre, what city contains the eastern terminus of the Trans-Canada Highway?

A: **St. John's** (reject: Saint John)

## 12-Part Blitz

89. Relational examples of what structures can be manipulated using sequel?

A: **databases**

90. What band is behind the hits "Believer" and "Demons"?

A: **Imagine Dragons**

91. What "old lie" would you not tell to "children ardent for some desperate glory" according to a poem by Wilfrid Owen?

A: **Dulce et decorum est** pro patria mori

92. What is the derivative of the tangent function?

A: **secant squared** (accept: secant to the power of 2)

93. The companies Bissell, Dyson and Hoover are best known for manufacturing what appliances?

A: **vacuum** cleaners

94. What kind of golf clubs hit the ball farther than wedges but not as far as woods?

A: **irons**

95. What is the name of Vancouver's rapid transit system?

A: **Skytrain**

96. With applications in photography as well as architecture, what technique employs optical illusion to make an object appear closer or farther away than it really is?

A: **forced perspective**

97. What is the highest category on the Saffir-Simpson scale, used to classify hurricanes?

A: Category **5**

98. What hymn can begin with a low G up to a long C, followed by E, D, C, E? The lyrics that come after these notes are "how sweet the sound".

A: **"Amazing Grace"**

99. Who was known as the "Wizard of Menlo Park"?

A: Thomas **Edison**

100. By what name are Ras al-Khaimah, Umm al-Quwain, Ajman, Fujairah, Sharjah, Abu Dhabi, and Dubai known?

A: United Arab **Emirates** (accept: **U.A.E.**)