



## 2025-26 High School Qualifier (T2) – Pack 11

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# PACK 11

## 5-Part Blitz

1. The Kroll process isolates what metal, used primarily in the aerospace industry?  
A: **titanium** (prompt on: Ti)
2. In what kind of theatre could one find stock characters such as Pantaloon, Scaramouch, and Pulcinella?  
A: **commedia dell'arte**
3. In hairstyling, what technique involves hand-painting highlights across the hair as opposed to using foil?  
A: **balayage**
4. In what series is film company Continental headed by Matt Remick, played by Seth Rogen?  
A: *The* **Studio**
5. Now popular in Japan, what Chinese school of Mahayana Buddhism emphasizes meditation and Buddha-nature thought for the purpose of sudden awakening?  
A: **Zen** Buddhism

## Double Jump

6. What word refers to the white, semi-soft animal byproduct, once used in times of hardship as a butter replacement, made from rendered pork fat?  
A: **lard**
7. What word refers to the equivalent product rendered from beef or mutton?  
A: **tallow**

## Double Jump

8. What channel airs made-for-T.V. movies that are often mocked for tropes such as a lonely businesswoman returning to her small hometown for Christmas and falling in love with a local man?  
A: **Hallmark** Channel
9. What actress has appeared in over 40 Hallmark movies, including the *Wedding Veil* series, *All of My Heart*, and 2025's *She's Making a List*?  
A: Lacey **Chabert**

## Set of 4: Writing About Science

10. Who wrote the autobiographical *Uncle Tungsten* and drew on experiences with a patient with visual agnosia to write *The Man Who Mistook His Wife for a Hat*?  
A: Oliver **Sacks**
11. Scholastic commissioned Joanna Cole to write what educational science book series, later adapted into a T.V. show?  
A: *The* **Magic School Bus**
12. Who wrote a compilation of mathematicians' biographies titled *God Created the Integers* and an analysis of scientific texts titled *On the Shoulders of Giants*?  
A: Stephen **Hawking**
13. Who wrote the book *Cosmos* and hosted a documentary T.V. show of the same name?  
A: Carl **Sagan**

## Jackpot

Note: this question will require two answers.

14. Part 1: What were the home and adoptive countries of the man who illegally recruited privateers in the country he was visiting, then had to seek asylum there after his home country threatened to execute him?
15. Part 2: Rising diplomatic tensions led one of these countries to begin attacking the other's merchant ships, triggering an undeclared war that ended their two-decade alliance.
16. Part 3: In the aftermath of a slave revolt and facing the prospect of new wars at home, one of these countries sold most of its possessions in the Western Hemisphere to the other country.
17. Part 4: These two countries were the primary parties in the Genêt ["juh-NAY"] Affair, the Quasi-War, and the Louisiana Purchase.  
A: the **United States** of **America** (accept either bolded part) (accept: **U.S.A.**)  
AND **France** (accept: **French** First **Republic** on Parts 1 and 2 only)

## Set of 3

18. What word refers to shallow, nearly enclosed bodies of water with just a small connection to a lake or sea?  
A: **lagoons**
19. Many lagoons are found in what kind of islands, common in the central Pacific Ocean, formed by coral reefs?  
A: **atolls**
20. Usually referred to as a lake because of its size, what lagoon sits on the Caribbean coast in northern Venezuela?  
A: Lake **Maracaibo**

## 5-Part Blitz

21. The difference in what quantity determines whether a bond is ionic, polar covalent, or covalent?  
A: **electronegativity**
22. A green armchair, adopted shortly after its acquisition of Canada Trust in 2001, often features in the marketing of what bank?  
A: **T.D.** Bank (accept: **Toronto-Dominion** Bank, **T.D.** Canada Trust)
23. In what video game franchise can you meet rockstar K. K. Slider and museum director Blathers?  
A: **Animal Crossing**
24. Leonora Carrington and Max Ernst were members of what art movement, for which André Breton wrote a manifesto that called it "pure psychic automatism"?  
A: **surrealism** (accept: **surrealist** movement/art)
25. What kind of device can be described as an air conditioner that also runs in reverse, and is increasingly used as a furnace replacement due to its superior efficiency?  
A: air-source **heat pumps**

## END OF FIRST QUARTER

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## SECOND QUARTER

### Splits: Epidemiology & Disneyland Rides

#### Epidemiology

26. What letter is used to represent the average number of people that an infected individual will infect?  
A: **R**
27. In what city was the source of a cholera outbreak traced to a water pump by John Snow, considered one of the founders of modern epidemiology?  
A: **London**
28. What does the letter "S" stand for in the S.I.R. model, representing the individuals who are not immune to and have not yet been infected by the disease?  
A: **susceptible**
29. In November 2025, Canada lost elimination status for what disease, grouped with mumps and rubella in a common childhood vaccine?  
A: **measles**

### **Disneyland Rides**

30. The lyrics "there's so much that we share / that it's time we're aware" precede the name of what ride, which features over 300 animatronics dressed in traditional clothing from different cultures?  
A: **It's a Small World**
31. The Black Spire Outpost is the setting of what newest Disneyland themed area, inspired by the *Star Wars* series?  
A: *Star Wars*: **Galaxy's Edge**
32. In 2024, Tiana's Bayou Adventure replaced what *Song of the South*-themed log flume ride?  
A: **Splash Mountain**
33. In 2006, Hector Barbossa and Jack Sparrow were added to what ride, which inspired the film series of the same name?  
A: **Pirates of the Caribbean**

### **Double Jump**

34. What country ceased to exist in October 1990 when its five states united with the country to its west, a year after the fall of the Berlin Wall?  
A: **East Germany** (accept: **German Democratic Republic, G.D.R.**) (reject: Germany)
35. What portmanteau refers to a sense of longing among former East German citizens for East Germany's community and way of life?  
A: **ostalgia** (accept: **ostalgie**)

### **Double Jump**

36. What state is the target of Operation Metro Surge, which has resulted in the killings of Renee Good and Alex Pretti by the Department of Homeland Security?  
A: **Minnesota**
37. In the aftermath of Good's death, what Minneapolis mayor used expletives in a statement urging ICE to withdraw from the city?  
A: Jacob **Frey**

### **Set of 4: Pedals in Music**

38. Sometimes known as the kick drum, what part of a drum kit is played with a foot pedal?  
A: **bass** drum
39. What instrument has a massive set of foot pedals known as a pedalboard, to complement its many manuals?  
A: pipe **organs**

40. A typical grand piano has how many pedals?  
A: **3**
41. The standard orchestral version of what instrument has 7 pedals, which raise or lower its strings by a semitone?  
A: **harps**

#### **Set of 4: Football Plays**

42. A last-second downfield pass out of desperation is known by what religious name?  
A: **Hail Mary**
43. Defensive backs and linebackers rush the passer in what kind of defensive play?  
A: **blitzes/blitzing**
44. The Eagles have recently popularized an extremely effective kind of quarterback sneak referred to by what nickname?  
A: **tush push** (accept: **brotherly shove**)
45. What kind of trick play did the Colts botch so badly in a 2015 game that their attempt is often referred to as the worst play in N.F.L. history?  
A: **fake punt**

#### **5-Part Mystery**

46. What class in *Dungeons & Dragons* was formerly called "thief" and can use a sneak attack to inflict extra damage against enemies?  
A: **rogues**
47. What character was portrayed by Jean Marais in a 1946 Jean Cocteau film, and falls in love with a woman who accepts a punishment in her father's place named Belle?  
A: The **Beast**
48. What term refers to any chess opening in which a player sacrifices a piece in order to gain an advantage?  
A: **gambits**
49. In Greek mythology, what kind of creature is Polyphemus, a giant with one eye?  
A: **cyclopes** (accept: **cyclopes**)
50. Mainly found in remote areas of the Northern Hemisphere, what animal is the largest member of the weasel family?  
A: **wolverines**  
[Theme: X-Men]

### **END OF FIRST HALF**

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### **THIRD QUARTER**

#### **Splits: Ancient Roman Regions & Mathematicians**

##### **Ancient Roman Regions**

51. What region did Rome give up on trying to conquer after suffering a crushing defeat in the Teutoburg Forest?  
A: **Germania** (accept: Magna **Germania**, **Germania** Libera/Barbaricum, **Germany**)

52. After being conquered by Augustus, what wealthy province became a major grain source and was governed from what was then the Empire's second-largest city, Alexandria?  
A: **Egypt** (accept: **Aegyptus**)
53. As a result of the first-century-B.C. Social War, all free adult male residents of what region were granted Roman citizenship?  
A: **Italy** (accept: **Italia**, the **Italian Peninsula**)
54. Which emperor reorganized the provinces when he created the Tetrarchy in 293 A.D.?  
A: **Diocletian**

### Mathematicians

55. Who put forward a list of 23 unsolved problems at the turn of the twentieth century, and also imagined a hotel with infinitely many rooms that has counterintuitive properties?  
A: David **Hilbert**
56. Who proposed five postulates of geometry in his work *Elements*?  
A: **Euclid**
57. The ancestry of male honeybees, the patterns found on pine cones, and the arrangements of petals on some daisies are all related to the namesake sequence of what mathematician?  
A: **Fibonacci**
58. What mathematician lends his name to the set of all complex numbers whose real and imaginary parts are both integers, and also to another name for the normal distribution?  
A: Carl Friedrich **Gauss**

### Set of 3: Non-American Business Giants

59. The only non-American company to surpass 2 trillion U.S. dollars in market capitalization is what state-owned oil and gas corporation headquartered in Saudi Arabia?  
A: Saudi **Aramco**
60. What type of material is manufactured in the Hsinchu ["SHIN-choo"] Science Park by the largest company in Taiwan, T.S.M.C.?  
A: **semiconductors**
61. What billionaire founded Ant Group, whose I.P.O. was hijacked by Xi Jinping, and also co-founded the e-commerce giant Alibaba?  
A: Jack **Ma**

### Jailbreak

62. In what year did Nunavut become its own territory?  
A: **1999**
63. What name is given to the toy produced by Tech Deck that is essentially a miniature skateboard?  
A: **fingerboards**
64. Who made his film debut as Milton Rockwell in *Marty Supreme*, but is better known for his roles as a celebrity businessman on *Shark Tank* and *Dragon's Den*?  
A: Kevin **O'Leary**
65. What word means the basic rhythmic structure of a line or verse of poetry?  
A: **metres**
66. Who wrote the phrase known as the cogito, translated into English as "I think, therefore I am"?  
A: René **Descartes**
67. Not long after its release, what game accidentally invited players to the Korean Demilitarized Zone by placing a gym there?  
A: **Pokémon GO**

68. What is the lightest metalloid, with atomic number 5?  
A: **boron** (prompt on: B)
69. Give the one-word common name of either of the international airports located in the Greater Tokyo Area.  
A: **Haneda** OR **Narita**
70. What artistic process uses acid to cut designs into a metal plate?  
A: **etching**
71. Represented by a “looped square” design, which key is found to the right of Control and Option on a Mac?  
A: **Command** key
72. What two quantities can be multiplied to find the potential difference across two points, according to Ohm’s law?  
A: electrical **current** (prompt on: I) AND electrical **resistance** (prompt on: R)
73. What civilization had early settlements at Cuicuilco in Mexico and Teotihuacan in the Valley of Mexico, and later built sites like Chichen Itza on Mexico’s Yucatan Peninsula?  
A: **Mayan** Empire/civilization (accept: the **Mayans**)
74. Which South American country has two capitals, at Sucre and La Paz?  
A: **Bolivia**
75. Antitrust law often focuses on regulating or breaking up what kind of companies, which control the entire supply in a given industry?  
A: **monopoly** (accept: **monopolies**, **monopolists**)

#### END OF THIRD QUARTER

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#### FOURTH QUARTER

##### Jackpot

76. Part 1: What adjective titles a novel whose main character inadvertently causes an explosion at a Liberty Paint factory, where he began working after being expelled?
77. Part 2: 55 fictional cities are described by this adjective in the title of a novel by Italo Calvino.
78. Part 3: This adjective appears in the title of a novel whose protagonist is introduced wearing bandages covering his entire face, with only a prosthetic nose visible.
79. Part 4: This adjective describes the unnamed narrator of a novel by Ralph Ellison, as well as a scientist named Griffin who fails to reverse an optical experiment on his body in another novel by H.G. Wells.  
A: **invisible**

##### Set of 5: Rap Samples

80. The Clash’s “Straight To Hell” is sampled in what 2007 hip hop track, which satirizes negative stereotypes about immigrants and was a hit for M.I.A.?  
A: **“Paper Planes”**
81. What rapper sampled “Gyongyhaju lany” [“GYUN-joy-ooH Lawn”], a 1969 song by Hungarian rock band Omega, on the song “New Slaves” from his album *Yeezus*?  
A: **Kanye West** (accept either bolded part) (accept: **Ye**)
82. Name both vocalists on the song whose bassline was sampled by Vanilla Ice for “Ice Ice Baby”, “Under Pressure”.  
A: Freddie **Mercury** AND David **Bowie**
83. What Rick James song was sampled by MC Hammer for “U Can’t Touch This” and by Nicki Minaj for a similarly titled 2022 song?  
A: **“Super Freak”**

84. Doechi's song "Anxiety" samples what 2011 duet by Kimbra and Gotye?

A: **"Somebody That I Used To Know"**

#### Set of 4: Uncommon Long Forms

Given a description of a word as well as its short form, identify the long form.

85. A brief report on a contract or business transaction, more commonly called a "memo".

A: **memorandum** (accept: **memoranda**)

86. A durable sheet of polyethylene, canvas, or other waterproof material used to cover something, more commonly called a "tarp".

A: **tarpaulins**

87. A common garment usually attached in the back with hook-and-eye fasteners, used to support the breasts and more commonly called a "bra".

A: **brassieres**

88. A paper document that was copied and transmitted between two namesake machines, ubiquitous in pre-internet offices and more commonly called a "fax".

A: **facsimiles** ["fak-SIM-ill-ee"]

#### 12-Part Blitz

89. What scientist names fluctuating electric forces felt by molecules due to random motion of electrons, the weakest of the intermolecular forces?

A: Fritz **London**

90. What word beginning with "A" means automatically winning an election by having no opponents?

A: **acclamation** (accept: **acclaiming**, **acclaimed**)

91. What country was known as Rhodesia until the 1980s?

A: **Zimbabwe**

92. Darren Walsh was said to have what condition, which makes the holder a pariah and can be passed on by physical contact, in *Diary of a Wimpy Kid*?

A: the **Cheese Touch**

93. You will have five seconds. To the nearest degree Celsius, what temperature is twice as hot as 10 degrees Celsius?

A: **293** degrees Celsius

94. What is the westernmost country in Central America?

A: **Guatemala**

95. Benefit denial tags used to prevent shoplifting most often release what substance if tampered with?

A: permanent **ink** (accept: permanent **dye**)

96. What city serves as the capital of the Presidential Leadership Council, and is the primary port of Yemen?

A: **Aden**

97. In what kind of event can P, S, and Love waves be detected?

A: **earthquakes**

98. In medieval Europe, what word referred to a noble boy aged seven to fourteen who moved to a different castle to work as a servant to a knight?

A: **pages**

99. Which American state contains the Lowcountry region, where Johns Island and many of the other Sea Islands are found?

A: **South Carolina**

100. How many burgers, fries, tacos, pies, and Cokes are ordered at a drive-through fast food restaurant in an episode of *I Think You Should Leave* with Tim Robinson?

A: **55** (accept: **275**)

**END OF GAME**