

## BONUSES

B1. For 5 points each, name the discoverer of the following atomic particles and for an additional 5 points, identify the year each one was discovered within one year: (Science 1)

A. Proton.

Answer: Ernest Rutherford, 1919 (accept: between 1918 – 1920)

B. Neutron.

Answer: James Chadwick, 1932 (accept: between 1931 – 1933)

C. Electron.

Answer: Sir Joseph John Thomson, 1897 (accept: between 1896 – 1898)

B2. Identify these battles involving Napoleon for 10 points each. (History 1)

A. In this 1809 battle, Napoleon crossed the Danube and, despite heavy losses and the death of Marshal Eugene Lannes, inflicted a heavy defeat on the army of Austrian archduke Charles which led to a peace treaty with Austria.

Answer: Battle of Wagram

B. In 1805, Napoleon outmaneuvered a 40,000-man Austrian army headed by General Karl Mack and forced their surrender.

Answer: Battle of Ulm

C. In the 1812 battle at this river, Russian admiral Tchichagov failed to capture Napoleon, allowing him to escape with the remainder of his army but at a cost of losing close to 36,000 of his men. The river's name would become synonymous with catastrophe among the French.

Answer: Berezina

B3. Only two football players in the history of the World Cup have appeared in the tournament on 5 separate occasions. For 15 points each, (Sports 1)

A. Considered the most successful player in professional football, this midfielder / defender played for West Germany in the 1982, '86, and '90 World Cups and for Germany in the 1994 and 1998 tournaments. He is currently the coach of Red Bull Salzburg.

Answer: Lothar Matthäus

B. The first person to appear in 5 World Cups was this Mexican goalkeeper from Club España and León. He made appearances 1950, '54, '58, '62 and '66.

Answer: Antonio Carbajal

B4. This police drama set in the fictional Farmington district of Los Angeles garnered the most Emmy nominations of any basic cable drama in TV history. For 10 points each: (Pop Culture 1)

A. Name the show.

Answer: The Shield

B. Name the controversial lead character, played by Michael Chiklis, who embodies a curious combination of an amoral, corrupt cop but a caring father and husband.

Answer: Vic Mackey (accept either underlined part)

C. In Season 5, Mackey's experimental Strike Team comes under investigation by a relentless Internal Affairs investigator portrayed by what Oscar-winning actor?

Answer: Forest Whitaker

B5. VISUAL BONUS! Study the following fractals and answer the following questions for 10 points each. (Math 1)

A. Picture A is the most well-known fractal set named after the Franco-American mathematician who discovered it. The set consists of complex quadratic polynomials. Name it.

Answer: Mandelbrot Set

B. Picture B is a variation of the Mandelbrot Set fractal in that the real and imaginary components are set to their respective absolute values before squaring at each iteration. This fractal gets its name from its depiction of a specific mode of transportation.

Answer: The Burning Ship fractal

C. The Mandelbrot Set and the Burning Ship fractal belong to what group of generating fractals defined by a recurrence relation typically over the complex plane?

Answer: Escape-Time fractals

B6. Identify the titles of the following Margaret Atwood poems from lines for 10 points each. (Literature 1)

A. "...Like a hook into an eye / a fish hook / an open eye"

Answer: "You Fit Into Me"

B. "I see them coming / up from the hold smelling of vomit, / infested, emaciated, their skins grey / with travel; as they step on shore"

Answer: "The Immigrants"

C. "This is the one song everyone / would like to learn / the song that is irresistible / the song that forces men / to leap overboard in squadrons / even though they see the beached skulls"

Answer: "Siren Song"

B7. Identify these related economics terms for 10 points each. (Social Sciences 1)

A. This action can usually be “friendly” or “hostile” depending on how the bidder and the target company’s board are involved in the action.

Answer: takeover

B. This type of takeover occurs when a smaller company acquires ownership of a larger company.

Answer: reverse takeover

C. What is the apian term given to firms or individuals that are employed by a target company to fend off a takeover bid?

Answer: killer bees

B8. They form at the boundaries of adjacent air masses with significant differences in temperature. For 10 points each: (Science 2)

A. Give the meteorological term for these fast flowing, narrow air currents found about 36,000 feet above the Earth’s surface.

Answer: jet stream

B. Name this boundary region in the atmosphere between the troposphere and the stratosphere where jet streams typically reside under.

Answer: tropopause

C. Within 10%, at what speed in kilometers per hour must the wind technically be in order to be called a jet stream?

Answer: 111 km/h (accept: between 100 and 122 km/h)

B9. VISUAL BONUS! 5 points for one, 10 for two, 20 for three, 30 for all four, identify the Canadian province or territory based on their coat of arms. (General Knowledge 1)

Answer: (A) Prince Edward Island, (B) Nunavut, (C) Saskatchewan, (D) Newfoundland

B10. Identify the Sherlock Holmes story based on the killer and his or her actions for 10 points each. (Literature 2)

A. Through deciphering of messages consisting of stick figures, Holmes discovers that Elsie's unwillingness to leave her husband Hilton Cubitt leads killer Abe Slaney to murder her husband.

Answer: "The Adventure of the Dancing Men"

B. The stealing and shattering of busts of Napoleon and the murder of an inspector leads Holmes to an Italian named Beppo who seeks to find the black pearl of the Borgias which lay hidden in one of the busts at all costs.

Answer: "The Adventure of the Six Napoleons"

C. The first-ever Sherlock Holmes story, two police detectives arrive at dead ends solving a double-murder but Holmes deduces that the killer is a cab driver named Jefferson Hope motivated by a lost love and revenge.

Answer: "A Study in Scarlet"

B11. You can't get away from it on TV nowadays. Texas Hold 'Em poker is everywhere! Identify the following Texas Hold 'Em terms for 10 points each. (Games 1)

A. This four-letter term describes the first three community cards placed on the table after the initial round of betting.

Answer: flop

B. These are the two face-down cards dealt to each player at the beginning of each hand.

Answer: hole cards (accept: pocket cards)

C. This two-word slang term refers to a player's hole cards consisting of an ace and king.

Answer: Big Slick

B12. Answer these questions on historic Canadian natural disasters for 10 points each. (History 2)

A. The largest natural landslide in history, this April 1903 disaster resulted in 74 million tonnes of limestone crashing from the summit of Turtle Mountain and covering about three square kilometers of the valley floor near the Alberta coal mining town for which it was named. Over 70 people were killed.

Answer: Frank Slide

B. The deadliest and most destructive natural disaster ever to hit the Great Lakes occurred from November 7 through 10, 1913 where a blizzard with hurricane-force winds resulted in the destruction in 19 ships and the deaths of over 250 people.

Answer: The Great Lakes Storm of 1913 (accept: The Big Blow or The Freshwater Fury or The White Hurricane)

C. On July 31, 1987 twenty-seven people were killed and thousands left homeless when an F4 tornado touched down in this Canadian city.

Answer: Edmonton, Alberta

B13. Identify the following mythological dogs for 10 points each. (Mythology 1)

A. Similar to Cerberus from Greek myth, this huge hound guards Hel, the land of the dead, in Norse mythology.

Answer: Garmr (accept: Garm)

B. A gift from Zeus to Europa, this dog never failed to catch his prey in Greek myth.

Answer: Laelaps

C. This is an evil underworld spirit from Inuit mythology resembling a hairless dog.

Answer: Keelut

B14. Given the name of a disease, name the organ of the human body it affects for 10 points each. (Science 3)

A. Creutzfeldt-Jakob disease.

Answer: brain

B. Ménière's disease.

Answer: inner ear

C. Addison's disease.

Answer: adrenal gland

B15. For 10 points, answer these questions about 20<sup>th</sup>-century minimalist *composer* Philip Glass. (Fine Arts 1)

A. Glass' *Portrait Trilogy* consists of three operas composed in 1975, 1980 and 1983. Name any one opera from this trilogy.

Answer: any one of: "Einstein on the Beach" (1975), "Satyagraha" (1980), "Akhmaten" (1983)

B. June 2007 marked the premiere of Glass' adaptation of what Canadian's poetry collection entitled *Book of Longing*?

Answer: Leonard Cohen

C. Glass' first Academy Award nomination happened in 1997 when he provided the orchestral score for which Martin Scorsese film about the Dalai Lama?

Answer: "Kundun"

B16. Given a literary trilogy, identify the author for 5 points and another 5 points if you can name the title of the first book in the trilogy. (Literature 3)

A. *The Deptford Trilogy*.

Answer: Robertson Davies, "Fifth Business"

B. *His Dark Materials*.

Answer: Philip Pullman, "The Golden Compass" (accept: "Northern Lights")

C. *The Barrytown Trilogy*.

Answer: Roddy Doyle, "The Commitments"

B17. It tells the story of Jean-Marc Leblanc, a desperate civil servant who escapes reality by imagine himself as an adventurous hero. For 10 points per answer: (Current Events 1)

A. Name this final installment of Denys Arcand's trilogy featured as a non-competitive entry in the 2007 Cannes film festival.

Answer: "L'Âge des ténèbres" or "The Age of Ignorance"

B. Name the other two critically-acclaimed films in Arcand's trilogy released in 1986 and 2003.

Answer: "Le Déclin de l'empire américain" or "The Decline of the American Empire", "Les Invasions barbares" or "The Barbarian Invasions"

B18. Just after midnight on Monday, June 25 a popular reference website had information edited about this man about 14 hours before authorities say the bodies of himself, his wife Nancy and his son were found. For 10 points per answer:

- A. Name this reference website and the man whose information was altered prior to his death.

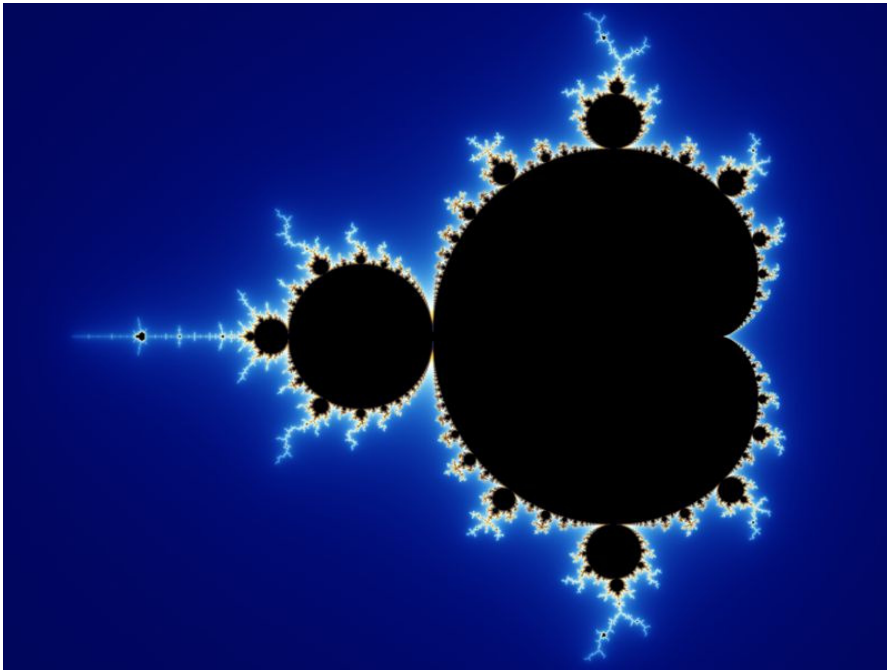
Answer: Wikipedia, Chris Benoit

- B. Investigators traced the IP address who edited the information to a user registered in this Connecticut city where World Wrestling Entertainment is based.

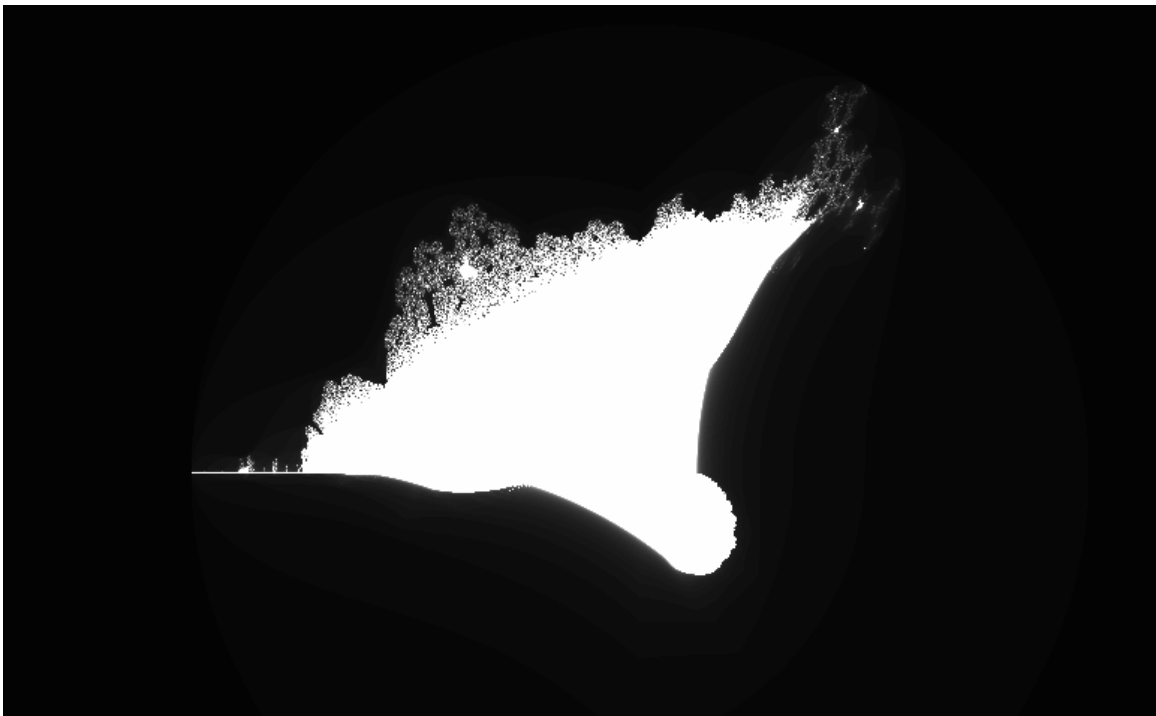
Answer: Stamford, CT

D. B5 VISUAL BONUS: Study the following fractals.

Picture A:

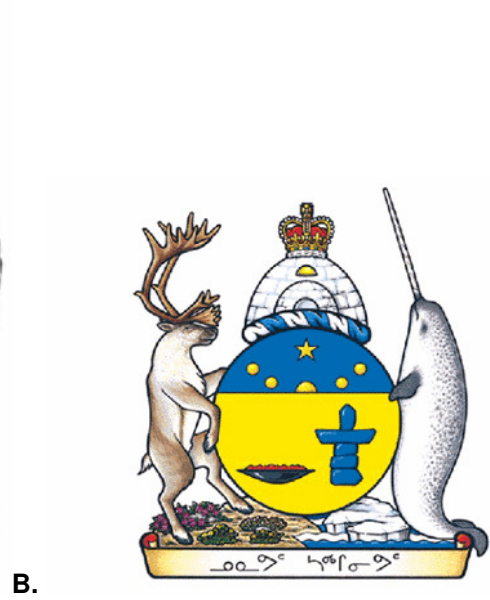


Picture B:





**B9 VISUAL BONUS:** Match the coat of arms with their respective Canadian province or territory.



B12 VISUAL BONUS: Name the following Canadian music groups.

A.