

## 2019 Boston Latin Invitational Scholastic Series (BLISS) I Round 9

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### Tossups

- Poinsot construction models a rigid body with a value of 0 for this rotational quantity. Precession occurs when this quantity is perpendicular to angular momentum. Work can be expressed as the integral of this quantity with respect to theta, and angular momentum is the (\*) integral of this quantity with respect to time. This quantity is equal to  $I\alpha$  (read as “big I times alpha”) or moment of inertia times angular acceleration. This quantity is the cross product of force and radius and has units of foot pounds or newton meters. For 10 points, name this rotational analogue of force.**  
Answer: **torque** (accept **force** until rotational in first line)
- In one poem by this man, when someone died, “none stopped to kiss his face.” In another, the title character teases with “skillfully applied bayonets roasted hot with heat.” Women and men “reaped their sowing and went their came” in his poem that concludes (\*) “sun moon stars rain”. In his autobiographical novel, this author writes about his time in France first as an ambulance driver and later as a prisoner in a concentration camp during World War I. For 10 points, name this author of “anyone lived in a pretty how town” and *The Enormous Room*.**  
Answer: **Edward Estlin “E. E.” Cummings**
- A work by this artist was sold for £1 million (read as “one million pounds”) in London as the last piece in Sotheby’s Frieze Week art sale. This man’s *The Son of a Migrant from Syria* shows Steve Jobs. A boombox and a chain appear in *Gangsta Rat*. *The Walled Off Hotel* was built by this artist. Like several other artworks showing glimpses of beaches, that work is on the West Bank. Another work by this artist shows a masked (\*) protester throwing a bouquet of flowers. A recent work by this artist created controversy when it shredded itself. That work was *Girl with the Balloon*. For 10 points, name this contemporary anonymous British street artist.**  
Answer: **Banksy**
- The Cordillera Occidental is a range of dormant volcanoes that contains Nevado Sajama, this country’s highest point. In this country’s southwest is the Salar de Uyuni, the largest salt flat in the world, which is a part of the altiplano or high alpine plateau. Lake (\*) Titicaca, the second largest lake in South America is located in this country, near its border with Peru. This country’s administrative capital is La Paz while its constitutional capital is Sucre. For 10 points, name this landlocked Andean country named after Simon Bolivar.**  
Answer: **Plurinational State of Bolivia (or Estado Plurinacional de Bolivia)**
- Thomas Knowlton encouraged his men to take cover behind a rail fence at this battle. A physician named Joseph Warren was killed, and his death was depicted by John Trumbull in a famous painting of this event. Either William Prescott or Israel Putnam gave the command to hold (\*) fire until they could see the whites of their enemy’s eyes. Thomas Gage commanded the British forces at this battle in Charlestown, a part of Boston, Massachusetts, and it was a defeat for the Americans. For 10 points, name this Revolutionary war battle that actually occurred on Breed’s Hill.**  
Answer: **Battle of Bunker Hill (accept Battle of Breed’s Hill before mentioned)**

6. **Two of these animals named Balius and Xanthus could speak to Achilles. Demeter bore a very fast one of these animals named Arion. A white one of these animals named Al-Buraq accompanied Muhammad on the Night Journey. Svaðilfari (Sva-dhil-fa-ree) mated with Loki, who took the form of this animal to give birth to Odin's (\*) eight-legged one named Sleipnir. Chiron was half human, half one of these animals. Bellerophon tamed a winged one of these named Pegasus. For 10 points, centaurs are what animal from the waist down?**

Answer: horses (or stallions or mares or steeds)

7. **After a mystical experience, this philosopher refused to continue, claiming that his writing was like straw. In one work, this man referred to two others as “the Commentator” and “the Philosopher”. Those men are Averroes and Aristotle, and he adapted Augustine’s concept of just war. This student of Albertus Magnus and author of (\*) Summa Contra Gentiles described an ultimate goodness, a first cause, and an unmoved mover in his five proofs for the existence of God. For 10 points, name this thirteenth century Christian scholar who wrote *Summa Theologica*.**

Answer: St. Thomas Aquinas

8. **The first element of the 8th period is predicted to be one of these elements. These elements are often stored under mineral oil or inert argon gas in order to prevent the formation of oxides. When considering ions, ammonium is often considered to be equivalent to one of these. This lies in contrast to hydrogen, which lies in the same (\*) column but is not one of these. These are most well known for their violent reactions with water. In pure form, they are shiny, silvery and soft enough to be cut by a knife. For 10 points, name these metals found in Group 1, including cesium, potassium, and sodium.**

Answer: alkali metals (prompt on Group 1 or Group 1A before mention; do not accept or prompt on alkaline earth metals)

9. **A boy laughs at the title character of this work, saying “The Devil knows how to row”. A person listening to the narrator recount this story sits on a rock like a “three year old” child. An animal falls from the neck of the protagonist when he blesses snakes. A deathly-pale woman named (\*) “Nightmare Life in Death” wins the life of the main character in a game of dice with Death, cursing him to walk the earth and tell his story of regret over killing a certain animal. For 10 points, name this lyrical ballad by Samuel Taylor Coleridge about an unnamed sailor who pays the price for killing an albatross.**

Answer: The Rime of the Ancient Mariner

10. **The Black Army under Mathias Corvinus besieged and took this city in 1485. This city’s name in Hungarian, Serbian, and Turkish are variations of Bécs (Bay-ch). Following the battle of Mohacs, this city was besieged by (\*) Suleiman the Magnificent. Jan Sobieski III led a contingent of Hussars against Mustafa Pasha in a battle that took place near this city at Kahlenberg Mountain. This city was besieged by the Ottomans in 1529 and 1683. For 10 points, name this Austrian city that was site of a namesake European congress in 1815.**

Answer: Vienna

11. **This composer’s *Partita in D minor* for solo violin has gigue (jeeg) and chaconne (Sha-kon) movements. This man’s musical sons have the nicknames Berlin and London for the cities where they worked. A six voice fugue is part of a work this man wrote after meeting Frederick the Great: *Musical Offering*. One work by this man attempted to cure (\*) Count Keyserling’s insomnia. This man directed a church choir in Leipzig, and that work based on an aria is *Goldberg Variations*. For 10 points, name this German Baroque composer of *Art of the Fugue* and *Brandenburg Concertos*.**

Answer: Johann Sebastian Bach or J.S. Bach (prompt on partial answer; do not accept or prompt on

**Johann Christian Bach or J.C. Bach**

12. **The protagonist of this novel wipes off a man's kiss and is kicked from his carriage in revenge. That man taught her to raise the chickens of a blind lady. A character in this story flees to Brazil to start a farm. The title character befriends Retty and Izz when working as a (\*) milkmaid for Talbothays. That character's husband and sister Liza-Lu watch for a sign of her death. Her daughter Sorrow dies soon after birth, and she later kills the child's father Alec. For 10 points, name this Thomas Hardy novel about a title woman who ultimately marries Angel Clare.**

Answer: ***Tess of the d'Urbervilles; A Pure Woman Faithfully Presented***

13. **This politician introduced social welfare programs and founded the Workers Party. This man's successor Dilma Rousseff was also impeached on similar charges. He was originally given immunity from arrest for involvement in a corruption scandal but was later sentenced to 12 years in prison as part of Operation (\*) Car Wash. His namesake "ism" had a significant impact on Brazilian politics. He intended to run in the 2018 election while still in jail, but he was barred from by the Brazilian Superior Electoral Court. For 10 points, name this former president involved with the Petrobras scandal.**

Answer: **Luiz Inácio Lula da Silva**

14. **In the misogi ritual, adherents of Shinto perform this activity in natural locations. In Zen Buddhism, adherents use a tsukubai (soo-Koo-bai) to do this before going to a holy place or a tea ceremony. Muslims may use sand or dirt for this action. Peter asked Jesus not to perform this action, which he did for each of his disciples before the (\*) Last Supper. Pontius Pilate performed this action after condemning Jesus. Muslims must perform this action before salah or prayer. Hindus perform this action in the Ganges River. For 10 points, name this action usually performed with water and the hands to cleanse.**

Answer: **washing or ritual purification (or bathing; accept more specific descriptions; accept cleansing or washing hands)**

15. **Wolff's law describes how these tissues grow and behave under stress. Hematopoietic tissue is contained in the medullary cavities of some of these structures. The structures grow at epiphyseal plates. A certain disease affecting this organ can occur after menopause. (\*) Rickets is another disease affecting these structures, while vitamin D can help strengthen these structures which lose density if affected by osteoporosis. For 10 points, name these structures exemplified by the femur which have a namesake marrow.**

Answer: **bones**

16. **In the Futurama episode "Insane in the Mainframe", Bender pretends to be a banjo playing version of this man. In Assassin's Creed Unity, Arno sees this man in Tuileries Palace. A film character with this man's name has an older brother named Kipling and is friends with Deb. This man was depicted with his hand in his waistband and atop a white horse crossing the (\*) Alps by Jacques Louis-David. Beethoven's Eroica Symphony is dedicated to this man. This man names a pig who opposes Snowball in Orwell's *Animal Farm*. For 10 points, name this French general who lost the Battle of Waterloo.**

Answer: **Napoleon Bonaparte (accept either underlined portion)**

17. **This man gained access to illegal Enlightenment philosophy through his position as a professor of theology at the prestigious Colegio de San Nicolás Obispo, but he was forced out for altering curriculum. The Virgin of Guadalupe featured prominently on the banner of his forces, who were defeated at the Battle of San Calderon. This (\*) *Criollo* parish priest was part of a 1810 plot to**

overthrow the Viceroyalty of New Spain. For 10 points, name this Mexican priest who delivered “The Cry of Dolores.”

Answer: Miguel Hidalgo y Costilla

18. **At Chattanooga, this three sport athlete wore 80 in honor of his hero. He later played with that hero and quarterback Steve Young for the San Francisco 49ers. That hero, Jerry Rice, called this man the second best wide receiver of all time over Randy Moss. This hall of famer was famous for his flamboyant and often controversial celebrations, most notably his celebration on the (\*) Dallas Cowboys’ star. This player played for many NFL teams including the Philadelphia Eagles. For 10 points, name this wide receiver who is popularly known by his nickname T.O. (tee-oh).**

Answer: **Terrell Eldorado Owens** (accept T.O. before mention)

19. **Unlike shufa, this country’s calligraphy is called shuji (shu-jee) or shodo. A period in this country’s history is named for the cord patterns, or Jomon, of vases. The practice of flower arrangement in this country is called ikebana (ih-kuh-ba-na). Noh theater is a type of masked drama. Saikei (sai-kay) is a lesser known artform from this country. Shears with giant handles and very short blades are used for (\*) bonsai in this country. The koto is a thirteen stringed instrument from this country. Kabuki is a type of theater while kirigami and origami are paper artforms. For 10 points, name this East Asian island nation with capital at Tokyo.**

Answer: **Japan** or **Nippon** or **Nihon**

20. **Though not waves, troughs are often associated with the presence of these phenomena. Squall lines, a type of this meteorological phenomenon, contain heavy precipitation. Likewise, the cold version of this phenomenon often features (\*) thunderstorms and other severe weather. On weather maps, the warm version of this phenomenon is usually denoted with a red line that is lined with semicircles on one side. For 10 points, name these boundaries that separate two air masses with different densities.**

Answer: **weather fronts**

21. **In a historical novel by this author, Matho’s death shocks and kills Hamilcar’s fictional title daughter, Salamambo. The older Madame Arnoux (ar-noo) is loved by the young man Frederic Moreau (moh-Roh) in this author’s *Sentimental Education*. The generous slave girl Felicite dies in this man’s *The Simple Heart*, and his most famous character commits suicide with (\*) arsenic. In that book, the title woman has affairs with Rodolphe and Leon. Those affairs break the heart of her husband, a doctor named Charles. For 10 points, name this French author of *Madame Bovary*.**

Answer: **George Flaubert**

## Bonuses

1. This family from Thornton published works under similar pseudonyms. For 10 points each:
  - a. Name, in no particular order, the three Brontë sisters who took on the names Currer, Ellis, and Acton Bell.  
Answer: **Emily, Charlotte, Anne** (accept in any order)
  - b. In this novel by Emily Bronte, Lockwood learns about the previous inhabitants of the namesake mansion including Cathy and Hareton.  
Answer: ***Wuthering Heights***
  - c. This on-and-off admirer of Helen Graham originally pursues Eliza Millward but later marries Helen after a chance meeting along a road. He appears in *The Tenant of Wildfell Hall* by Anne Brontë.  
Answer: **Gilbert Markham** (accept either underlined portion)
2. Rivers are key parts of civilizations. For 10 points each:
  - a. This king of Lydia lost his golden touch after washing his hands in the Pactolus River. Apollo gave donkey ears to this man who supported Pan in a music contest.  
Answer: **Midas**
  - b. The Lethe (lee-thee) is the river of forgetfulness in this location. Other rivers in this location include the Styx (sticks) and the Acheron.  
Answer: **Greek Underworld or Hades**
  - c. This Trojan river's personification almost killed Achilles after he filled it with corpses. This river also fought Hephaestus and lends its name to Hector's son who was nicknamed Astyanax.  
Answer: **Scamander** (or **Xanthos**)
3. Got milk? For 10 points each:
  - a. This intoxicating drink is made from milk and cannabis. Hindus drink this liquid on Holi.  
Answer: **bhang** (accept **bhang lassi** or **bhang thandai**; do not prompt on answers not including **bhang**)
  - b. The Promised Land is described as a land flowing with milk and this substance. Samson eats this substance after bees create a hive in the corpse of a lion he killed.  
Answer: **honey**
  - c. Muhammad inspired one man to convert after causing one of these animals to produce lots of milk. Dawood tended to these animals, one of which Ibrahim sacrificed in place of his son, Ishaq.  
Answer: **sheep** (or **ewes** or **goats** or **rams** or **lambs**)
4. Answer the following about the War of Austrian Succession. For 10 points each:
  - a. This Prussian king challenged Maria Theresa's ascension in a series of wars, including the War of Austrian Succession.  
Answer: **Frederick II** or **Frederick the Great** (prompt on **Frederick**)
  - b. This territory in modern day Poland and Czechia (che-Kee-ah) had previously been conquered by Frederick, but Maria Theresa attempted to reconquer it.  
Answer: **Silesia**
  - c. This is the term for the edict by which Charles VI attempted to allow a woman, Maria Theresa, to become the Holy Roman Emperor.  
Answer: **Pragmatic Sanction**
5. Printing is a very unique artform. For 10 points each:

- a. The Japanese ukiyo-e artist Hokusai created this most famous work for his forty-six piece collection *Thirty-six Views of Mount Fuji*. There are many original impressions of this work, which shows the ocean.

Answer: ***The Great Wave off Kanagawa*** or ***The Wave*** (accept ***Under the Wave off Kanagawa*** or ***Kanagawa oki nami ura***)

- b. The German woodcut artist Albrecht Durer showed a irregular polyhedron, a sad dog, and a sad angel in this work. The title of this work is above the sea in the upper left corner of this painting.

Answer: ***Melencolia I*** (read as “Melencolia One”)

- c. The English engraver William Hogarth created this 8 work series showing Tom Rakewell’s decline in London. This series inspired a successful ballet of the same name with music by Gavin Gordon.

Answer: ***The Rake’s Progress***

6. Pencil and paper ready. You will have 10 seconds per bonus. Consider a rhombus ABCD with sides of length 10 in. and acute angles A and C. For 10 points each:

- a. Find the area of the rhombus if the height between parallel sides is 8. Consider the fact that rhombuses are parallelograms.

Answer: **80 in.<sup>2</sup>** or **eighty square inches** [ $A=b \cdot h=10 \cdot 8=80$ ]

- b. Find the length of the longer diagonal if the shorter one measures  $4\sqrt{5}$  in. Consider how the diagonals can be used to calculate the area or how the diagonals relate to the side lengths.

Answer:  **$8\sqrt{5}$  in.** or **eight square root (of) five inches** [1:  $A=d_1 \cdot d_2/2$   $(2 \cdot 80)/4\sqrt{5}=8\sqrt{5}$  2:

$(4\sqrt{5}/2)^2+(d/2)^2=100$   $d=2\sqrt{80}=8\sqrt{5}$ ]

- c. Given that  $m\angle A=2\theta$  (read as “measure of angle A equals two theta) and remembering that  $\angle A$  is acute, find  $\tan\theta$ . Note that the altitude dropped from B or D forms a 3,4,5 right triangle. Consider looking for the angle in the rhombus or use the half angle formula.

Answer:  **$1/2$**  or **one-half** [1:  $\tan\theta=\sqrt{((1-\cos 2\theta)/(1+\cos 2\theta))}=\sqrt{(\frac{2}{5}/\frac{8}{5})}=1/2$  2:  $\theta$  is the smallest angle in each of the triangles formed by the diagonals and the sides (smallest because it is half the acute angles), the legs are proportional to the diagonals and  $(4\sqrt{5})/(8\sqrt{5})=1/2$ .]

7. There are all kinds of transport in the body. For 10 points each:

- a. Diffusion and osmosis are this type of transport which does not require energy.

Answer: **passive transport**

- b. In this type of transport, the vacuole fuses with the cell membrane and releases material out of the cell.

Answer: **exocytosis**

- c. This type of transport is the intake of liquids. In this type of transport, small vesicles containing the liquid are formed.

Answer: **pinocytosis**

8. This play's subtitle is The Hypocrite. For 10 points each:

- a. Name this play in which the title man threatens Orgon and his family.

Answer: ***Tartuffe***

- b. *Tartuffe* is by this French playwright of *The Miser*.

Answer: **Moliere** or **Jean Baptiste Poquelin**

- c. This other Moliere play deals with Alceste's love for Celimene.

Answer: ***The Misanthrope***

9. Answer some more scientific questions about milk. For 10 points each:
- Milk is an emulsion, which is an example of a liquid-liquid one of these. They are classified as mixtures with an even distribution of particles.  
Answer: **colloid**
  - Milk is a colloid of butterfat evenly distributed in this liquid. This liquid has formula H<sub>2</sub>O [read as “H-2-O”].  
Answer: **water**
  - This term refers to a colloidal suspension of particles in a gas.  
Answer: **aerosol**
10. Proponents of independence for this region kidnapped and murdered Pierre Laporte, prompting Pierre Trudeau to invoke the War Powers Act. For 10 points each:
- Name this francophone second largest Canadian province.  
Answer: **Quebec**
  - Quebec was the site of this battle where the Marquis de Montcalm was defeated by British general James Wolfe during the Seven Years’ War.  
Answer: **Battle of the Plains of Abraham**
  - This French explorer established the city that would become Montreal. This man explored Quebec in the early 17th century before dying on Christmas Day in 1635  
Answer: **Samuel de Champlain** [Boston Latin School was founded in 1635.]
11. Some NFL teams have never won a Super Bowl. For 10 points each:
- This team played against the New England Patriots in Super Bowl LI, where they gave up a 28-3 lead to lose in the first-ever overtime of a Super Bowl.  
Answer: **Atlanta Falcons** (accept either underlined portion)
  - This NFL team lost four consecutive Super Bowls from 1991-1994. OJ Simpson, Jim Kelly, and Bruce Smith have played for this team, which plays in New York.  
Answer: **Buffalo Bills** (accept either underlined portion)
  - This NFL team has never even played in a conference championship game. This team joined the league as an expansion team in 2002 to replace what is now the Tennessee Titans.  
Answer: **Houston Texans** (accept either underlined portion)
12. Other states also have inferior places named Boston. For 10 points each:
- A town named Boston is southeast of Buffalo in this state’s Erie County. The Hudson River flows through this state.  
Answer: **New York**
  - Boston is the also the namesake of a neighborhood in this state’s city of Louisville. Lexington is the largest city of this state.  
Answer: **Kentucky**
  - An abandoned town named Boston in this state’s Summit County is nicknamed Helltown. The Great and Little Miami Rivers are in this state.  
Answer: **Ohio**
13. One part of this work “counts the ways” that the speaker loves someone. For 10 points each:
- Name this forty four poem work by Elizabeth Browning.  
Answer: **Sonnets from the Portuguese**

- b. In this poem by Elizabeth's husband Robert, the speaker or title character kills his namesake lover upon the realization that she will one day leave him.

Answer: "**Porphyria's Lover**"

- c. Robert Browning's works, such as "Porphyria's Lover" "My Last Duchess" often featured this literary technique.

Answer: **dramatic monologue**

14. Examples of this genre include *Death and the Maiden* and *Gretchen at the Spinning Wheel*. For 10 points each:

- a. Name this broad genre of German music with voice and accompaniment. These pieces are often poetry set to music.

Answer: **lieder** (Lee-der)

- b. This Austrian composer wrote over six hundred lieder as well as his eighth *Unfinished Symphony*.

Answer: **Franz Schubert**

- c. This piece by Schubert is also called Piano Quintet in A Major. This piece earned its nickname because its 4th movement is based on Schubert's lied, *Der Forelle*, which means this in German.

Answer: **Trout Quintet**

15. Object permanence is lacking in this stage. For 10 points each:

- a. Name this earliest stage of cognitive development which is named for two broad groups of capabilities.

Answer: **sensorimotor stage**

- b. This Swiss psychologist developed a four stage theory of cognitive development.

Answer: **Jean Piaget**

- c. Piaget theorized that knowledge was processed in these units. Accommodation and assimilation are ways of relating new and older versions of these concepts.

Answer: **schemata**

16. This writer was a contemporary of both Longfellow and Hawthorne. For 10 points each:

- a. Name this American novelist who wrote *Little Women*.

Answer: **Louisa May Alcott**

- b. *Little Women* was the first novel of a trilogy. The third book of the trilogy is named [*This Woman's*] *Boys*. Name this tomboyish second eldest sister in the March family.

Answer: **Josephine March** (accept **Josephine Bhaer**)

- c. Jo runs this boys' school with her husband Frederic. Jo originally inherited this estate from her aunt.

Answer: **Plumfield**

17. Answer these questions about the laws of thermodynamics. For 10 points each:

- a. The first law is roughly the conservation of this phenomenon. Though not matter, this phenomenon cannot be created or destroyed but only transferred.

Answer: **energy**

- b. The second law states that the total amount of this phenomenon in the universe will always increase. This phenomenon represents the disorder of a system.

Answer: **entropy**

- c. The third law refers to entropy approaching a constant when a system in thermodynamic equilibrium approaches this condition. This condition is equivalent to 0 Rankine.

Answer: **absolute zero** (or **-273 degrees Celsius** or **-273 degrees Centigrade** or **0 degrees Kelvin** or **-460 degrees Fahrenheit**) (prompt on partial answers; accept more specific numbers)



18. Answer the following about New England. For 10 points each:
- The first public high school in the country is named for its classical curriculum and location in the capital of Massachusetts.  
Answer: **Boston Latin School** or **Public Latin School** (do not accept or prompt on **Boston Latin Academy**)
  - This Englishman founded the first textile mill in America, fathering the American Industrial Revolution in Pawtucket, Rhode Island.  
Answer: **Samuel Slater**
  - This sport, originally called mintonette and inspired by badminton, was invented in Holyoke, Massachusetts by William G. Morgan.  
Answer: **volleyball**
19. Many rebellions have punctuated China's saga of dynastic rule and interregna. For 10 points each:
- Name this revolt by the Society of the Righteous and Harmonious Fists against foreign influence. The rebels from this rebellion were defeated by the Eight Nation Alliance.  
Answer: **Boxer Rebellion** or **Boxer Uprising** (or **Yihetuan Qiyi**)
  - Name this Sogdian general who led a namesake revolt with Shi Siming during the Tang Dynasty. He was favored by the concubine Yang Guifei.  
Answer: **An Lushan** (accept **An Lushan Rebellion**; prompt on **An-Shi Rebellion**)
  - The Taiping Rebellion was led by this Hakka Christian who thought he was the younger brother of Jesus sent to save China. His friend Feng Yunshan created the God Worshippers' Society.  
Answer: **Hong Xiuquan** or **Hong Renkun**
20. The name of this movement comes from its use of certain easily seen clothing. For 10 points each:
- Name this grassroots political movement which is protesting increasing gas taxes and a high cost of living. Unrelated protesters in Taiwan and Belgium were inspired by this movement to dress similarly.  
Answer: **yellow jackets movement** or **yellow vests movement** (or **mouvement des gilets jaunes**)
  - The yellow jackets movement is protesting Emmanuel Macron's policies in this country.  
Answer: **France** (or **French Republic** or **République Française**)
  - Many yellow jacket protests take place on these road structures. Macron complained about the "distress of [these things]". Some protestors have called themselves the "France of [these things]" referring to the necessity of cars in rural France.  
Answer: **roundabouts** (or **rond point** (ron-pwan))
21. Glaciers have played a very important role in shaping the world around us. For 10 points each:
- These landmasses are created by the deposited debris of glaciers. These objects come in varieties such as terminal, lateral, and medial.  
Answer: **moraines**
  - This ice sheet covered large portions of the United States and Canada during the Quaternary glacial epoch and was responsible for carving out the Great Lakes along with numerous smaller lakes in Canada  
Answer: **Laurentide Ice Sheet**
  - This phenomenon contributes to the melting or retreat of glaciers around the world like Alaska's Muir Glacier. This phenomenon also contributes to rising sea levels.  
Answer: **global warming** (prompt on **climate change**)

