by Bill Tressler
with thanks to Alex Dzurick, Bern McCauley, and the Great Valley Quiz Team

Tossups

1. **In one story, this character burns papers Charles Augustus Milverton said would ruin Eva Blackwell's engagement. In a novel, he hides in Devon rock formations to learn about a naturalist Mr. Stapleton, who is actually Rodger Baskerville. This is the tenant of an apartment owned by Mrs.** (*) Hudson. He is foiled by Irene Adler in "A Scandal in Bohemia," and often is consulted by Inspector Lestrade of Scotland Yard. Dr. Watson is the companion of—for 10 points—what literary detective?

answer: **Sherlock Holmes** (accept either underlined name)

2. **The optional "melancholy solo" at the end of this ballet's first act was introduced by Rudolf Nureyev. The Petipa and Ivanov choreography of 1895 includes the act two dance meant to mimic young animals huddling for protection. This ballet begins with a prince being told he must choose a bride, but instead chooses to go** (*) hunting with friends. Its character Von Rothbart places a spell on Odette allowing her to be human only during nighttime. For 10 points—name this Tchaikovsky ballet about the birds found at a body of water.

answer: **Swan Lake** or **Lebedinoye ozero**

3. **Dieulafoy's [dee-oo-lah-FOYS] lesions are most commonly found in this anatomical structure. Borborygmi [BOR-boh-RIG-mee] are audible peristalsis motions often heard when this structure is near its minimum size, which occurs after the pyloric sphincter allows its contents to go to the duodenum [doo-ODD-eh-num]. This anatomical component uses** (*) pepsin as a breakdown agent, and also contains hydrochloric acid which kills microorganisms. In reflux disease those corrosive acids leave this structure and harm the esophagus. For 10 points—name this organ that digests food.

answer: **stomach**

4. **Members of this group accused of alerting blockading British ships during a war were derisively called its "blue light" faction. "Concerning the General Power of Taxation" and "The Executive Department" were articles by this group's leaders. They controlled the Senate until 1800 and their power was further diminished after the** (*) Hartford Convention such that by 1820 they ran no presidential candidate. For 10 points—give this term describing both a political party of John Adams and "papers" by Alexander Hamilton and John Jay.

answer: **Federalists** or **Federalist** Party (accept The **Federalist Papers**)

5. **In a Philip Roth novel, characters that participate in this activity include Hot Ptah, Word Smith, and the one-armed Bud Parusha. A Michael Lewis nonfiction work about this activity features Paul DePodesta and the use of sabermetrics. Ernest Thayer wrote a poem about this activity in which a participant says** (*) "That ain't my style" as an object flies past him; that poem ends with no joy in Mudville after the hero fails. For 10 points—give this activity, the subject of *Moneyball* and "Casey at the Bat."

answer: **baseball**

6. **Tradition states this civilization began after four brother-sister pairs emerged from a cave and defeated the Chanca people. The Inti Watana, a ritual stone, and the Torreon temple were sites used by these people that were excavated by Hiram Bingham. One could hear its citizens speaking Quechua** [KEH-chu-ah] **in its capital of** (*) Cusco, where leaders such as Pachacuti [PASH-ah-KOO-tee] and Atahualpa [AW-tah-WALL-pah] presided. For 10 points—name this empire conquered by Francisco Pizarro in South America.

answer: **Inca**(n) or **Inka** Empire

7. **In the Qu'ran's seventh sura, this figure faints when Allah turns a mountain into dust. The Mormons' *Pearl of Great Price* begins with a confrontation between this figure and Satan. During his time in Midian, he sat by a well and helped daughters of Reuel water their flocks. This brother of Miriam and** (*) Aaron served in a royal court after he was placed in a basket of reeds and found by the pharoah's daughter. The book of Exodus is ascribed to—for 10 points—what figure who parted the Red Sea and ascended Mount Sinai to receive the commandments?

answer: **Moses** or **Musa**

8. **The 1964 World's Fair was held on this landmass whose southeast includes Montauk Point. The Maryland 400 were soldiers who repeatedly charged the British during a 1776 battle on this landmass; after that battle Nathan Hale was captured as a spy here. It is the setting of** (*) *The Amityville Horror*, and scenes of the TV series *Revenge* showed its eastern Hamptons region. For 10 points—give this 118-mile island south of Connecticut and New York City.

answer: **Long Island**

9. **Irving Langmuir is credited with a scientific rule involving eighteen of these objects; the rule predicts reactivity of metallic compounds. The classical radius of this object equals about 1.7 times 10 to the 20th Planck lengths. Ernst Ruska and Max Knoll used these particles to invent a** (*) microscope. Cathode rays were early evidence for these particles, whose mass J.J. Thompson measured as much less than that of hydrogen atoms. Shells and orbitals outside the nucleus contain—for 10 points—what particles that carry negative charge?

answer: **electrons** (accept **18-electron** rule and **electron microscope**)

10. **At his story's start, this man is taught the difference between writing g's and q's by George. Later, while sleeping on a boat, a splash awakens this man but he does not help to look for the woman who jumped ship. He appears in a novel subtitled "A tale of Life among the Lowly". As a label, this character's name has come to mean an excessively** (*) subservient person, as this man forgives the overseers of Simon Legree when he is beaten to death. Harriet Beecher Stowe created—for 10 points—what character who lived in a cabin?

answer: Uncle **Tom** (accept **Uncle Tom's Cabin**)

11. **The 1915 Ordnance Datum Newlyn was an effort to determine this value measured by marigraphs. This value is currently changing around three millimeters a year. When the Laurentide ice sheet existed around 20,000 years ago, this value is thought to have been 130 meters** (*) lower than today. About half of Bangladesh's people live in areas near this value, which is why flooding is a concern. Elevations are often stated in relation to—for 10 points—what measure of the liquid covering the Earth that can be calculated as the average of low and high tides?

answer: mean (or global or eustatic) **sea level** (accept **ocean level**) [marigraphs are also known as tide gauges]

12. **This writer imagined a rampaging army of attorneys in his poem "Helter Skelter". He had ancient and 1700s authors fighting in** *The Battle of the Books*. **This author wrote a non-serious suggestion that begins by detailing the Irish poor and then suggesting that the nation eat its** (*) children to end starvation.   He also wrote a work in which a man visits the strange countries of Houyhnhnms [who-IN-nims], which is populated by horses, and Lilliput, where everyone is six inches tall. For 10 points—who is this author of *A Modest Proposal* and *Gulliver's Travels*?

answer: Jonathan **Swift**

13. **This team's 1977 defense devised by Jerry Glanville allowed only 129 points in fourteen games and was known as the "Grits Blitz."   When it lost Super Bowl 33, its quarterback was Chris Chandler, and later its 2006 quarterback became embroiled in a dog fighting scandal. This team recently moved into** (*) Mercedes-Benz Stadium, and its 2016 roster included Pro Bowlers Alex Mack and Julio Jones**.** A 25-point lead was blown in Super Bowl 51 by—for 10 points—what team led by Matt Ryan?

answer: **Atlanta** **Falcons** (accept either underlined name)

14. **This thinker claimed there are appetite, spirit, and reason components to the soul, and related those to the laborers, guardians, and leaders of a city. The cube and icosahedron are two of the regular convex polyhedron named for this man. One of his writings is a conversation between** (*) Timaeus and Critias about the ancient land of Atlantis. His student Callippus briefly ruled Syracuse, and he gathered other pupils at the Academy. For 10 points—name this ancient Greek, the student of Socrates.

answer: **Plato** (accept **Platonic solid**s after "cube")

15. **Along with Russ Feingold, this senator sponsored the Bipartisan Campaign Reform Act of 2002 meant to restrict election contributions. This man rode the** *Straight Talk Express* **while meeting voters and was harmed by a smear tactic claiming his adopted Bangladeshi daughter was actually a child he fathered through an affair. This man who spent** (*) five years as a prisoner of the North Vietnamese was diagnosed in July 2017 with an aggressive form of brain cancer. Sarah Palin was a running mate of—for 10 points—what Arizona senator?

answer: John **McCain** III

16. **In the Java and C++ programming languages, this keyword begins the implementation of an object. In taxonomy, this word classifies organisms such as Chondrichthyes [kon-DRIK-theez] and Trilobita [TRY-loh-BIH-tah] and comes between phylum and order in the hierarchy. In sociology, these categories may describe people such as** (*) blue collar workers, or classify the wealth status of citizens, such as the upper, middle, and lower stratification. For 10 points—give this term that can also mean a group of students.

answer: **class**

17. **This leader married a daughter of Desiderius [duh-sih-DAIR-ee-us], and later conquered Desiderius's realm. This man's grandsons, including Lothair and Louis the German, divided his kingdom in the Treaty of Verdun. Hrodgaud [rood-GOWD] of Friuli [FREW-lee] rebelled against this ruler after the Siege of Pavia, and he exiled his son** (*) Pippin the Hunchback for another uprising. This leader united most of Western Europe and served as the first Holy Roman Emperor in the 9th century. For 10 points—name this King of the Franks whose name means "Charles The Great."

answer: **Charlemagne** (accept **Charles The Great** or **Charles I** and prompt on "Charles" before "Charles")

18. **One inscription at this place reads "he travelled from this world to the banquet hall of eternity on ... the month of Rajab, in the year 1076 Hijri." The supervising architects for this building included Makramat Khan and Ustad Ahmad Lahauri. A tree-lined reflecting pool is in front of this structure surrounded by (*)** four minarets. Its name may mean "crown of the palace" and this structure on the south bank of the Yamuna river in Agra was built by the Shah Jahan for his wife Mumtaz. For 10 points—name this white Indian mausoleum.

answer: **Taj Mahal**

19. **When adjacent decimal digits from the fraction one-seventh are graphed on the Cartesian plane, the (x, y) pairs lie on this kind of shape. Its parametric definition is "x" equals "a" cosine "t" and "y" equals "b" sine "t." Another equation demonstrating this shape is 5 "x" squared plus "y" squared equals** (*) one. Kepler's first law states that the Sun is at one focus and that planetary orbits are this shape. For 10 points—name this conic section more precisely defined than the shape of an oval.

answer: **ellipse** [the first clue states (1,4), (4,2), (2, 8), (8, 5), (5, 7), and (7,1) lie on an ellipse]

20. **This man bought the Château of Vauvenargues [VOH-van-ARR-goo] and is buried there. In one painting, this artist depicted a nude woman embracing a man in a loincloth who gestures to a robed, older woman and an infant. Another of his paintings shows a clarinetist, a guitarist, and a singer in a** (*) boxlike room. The 1901 suicide of his friend Carlos Casagemas was one reason for the prominence of blue in his works of the time. *La Vie*, *Three Musicians*, and *Guernica* are by—for 10 points—what Spanish Cubist?

answer: Pablo (Ruiz y) **Picasso**

21. *Furcifer* and *Bradypodion* **are genera of these creatures whose species *Brookesia micra* is a vertebrate 16 millimeters in size. These creatures' feet each contain a group of two and a group of three toes. They have independently moveable eyes and their tongues stretch to twice their body length or more. Their** (*) skin contains pigments which are above a crystal layer, which functions to regulate body temperature, communicate emotions, and for camouflage. For 10 points—name these lizards that change color.

answer: **chameleon**

22. **The Rush-Bagot Treaty limited the use of military vessels on these bodies of water. Disasters that occurred here include the rolling of the *SS Eastland* and the 1975 sinking of the *SS Edmund Fitzgerald*. One of these surrounds Manitoulin Island, which is home to 12,000 residents. The phrase "We have met the enemy and they are ours" was said by** (*) Oliver Hazard Perry after winning an 1812 battle on one of these bodies north of Ohio. For 10 points—name this group of five lakes that includes Ontario and Superior.

answer: **Great Lakes** (prompt on "Lake Superior" et cetera before given)

Bonuses

1. The first of these violin compositions was played on television's *Arrow* when Diggle and Lyla were married. For 10 points each—
A.　　　Give the collective name for these Antonio Vivaldi works titled "Spring," "Summer", "Autumn," and "Winter."
answer:　　　The **Four Seasons** (or Le **quattro stagioni**; do not accept "The Seasons")
B.　　　*The Four Seasons* are examples of this kind of classical work where a solo instrument is accompanied by an orchestra.
answer:　　　**concerto**(s) (or **concerti**)
C.　　　The concerto cataloged as RV 780 is often performed on this keyboard instrument common in Baroque music. Virginals, muselars, and spinets are variants of this instrument.
answer:　　　**harpsichord**

2. For 10 points each—give these terms with a common prefix:
A.　　　Rectangles and rhombuses are special cases of these quadrilaterals that have two pairs of sides which would never touch if extended as lines.
answer:　　　**parallelograms**
B.　　　This form of biological symbiosis sees one organism benefit while the other is harmed. Examples include fleas on animals and the way mistletoe draws nutrients from a host plant.
answer:　　　**parasite** (accept word forms)
C.　　　Humans have two pairs of these glands in the neck. They regulate body levels of calcium and phosphate.
answer:　　　**parathyroid** glands

3. For 10 points each—name these people and groups who have won multiple Nobel prizes:
A.　　　This Polish scientist, the wife of Pierre, won both for her work on radioactivity and also for isolating radium.
answer:　　　Marie Skłodowska **Curie** (or Maria Salomea **Skłodowska**)
B.　　　Henry Dunant founded this organization honored for peace efforts three times. This group known for its disaster relief and blood drives uses a flag similar to Switzerland's but with the colors switched.
answer:　　　The International Committee of the **Red Cross**
C.　　　This man's two prizes were for the study of chemical bonds and peace activism against nuclear weapons. His research into using Vitamin C to treat heart disease and prevent colds was less well received.
answer:　　　Linus **Pauling**

4. For 10 points each—name these Roman deities:

A.   The gates of this god's temple were opened during war. Either Juno or this god of beginnings and doorways is the source of the name of our first calendar month.

answer: **Janus**

B.   Hephaestus [huh-FESS-tuss] is the Greek counterpart of this god of volcanoes and metalworking. Bonfires were lit during his August festival.

answer: **Vulcan**

C.   Caravaggio's painting *Amor Vincit Omnia* depicts this god. Jacques-Louis David also depicted this male, who is leaving a bed where Psyche reclines.

answer: **Cupid** [the painting's title means "Love Conquers All"]

5. For 10 points each—name these Shakespearean plays:

A.   This story about the feuding Montague and Capulet houses ends with the deaths of its two young title figures.

answer: **Romeo and Juliet**

B.   Prospero conjures up the title storm in this work to force his brother Antonio onto an island. In its end Prospero's daughter Miranda is betrothed to Ferdinand.

answer: The **Tempest**

C.   In this play the King Leontes thinks his wife has had an affair and banishes the infant Perdita. The servant Antigonus in this play has second thoughts about the exile, but before he can save the child he is chased from the stage, "pursued by a bear."

answer: The **Winter's Tale**

6. The story of a falling apple inspiring his theory of gravity has probably been embellished. For 10 points each—

A.   Give this scientist whose name is used for a unit of force needed to give a kilogram of mass an acceleration of 1 meter per second squared.

answer: (Sir) Isaac **Newton**

B.   Newton's First Law of Motion is known by this term for an object's resistance to changes in its speed or direction. The "moment of" this is a measure of a body's resistance to angular acceleration.

answer: **inertia** (accept **moment of inertia**)

C.   Newton was the second person to hold the Lucasian [loo-CAY-shun] Professorship of Mathematics at this school. Prince William is the current holder of a dukedom named for its locale.

answer: University of **Cambridge**

7. For 10 points each—name these similar organizations:

A.   In January 2017 Mike Pompeo was installed as the new head of this spy agency whose headquarters is in Langley, Virginia.

answer: **CIA** or **Central Intelligence Agency**

B.   This is the alphanumeric name given to the Secret Intelligence Service currently headed by Alex Younger. Seen in James Bond films, until 1992 the British government denied it existed.

answer: **MI6** [M-I-six]

C.   With a name meaning "The Institute," this Israeli intelligence agency led the 1960 effort to abduct Adolf Eichmann out of Argentina.

answer: **Mossad** or **HaMossad** leModiˁin uleTafkidim Meyuḥadim

8. When the discriminant of this formula is zero, the expression reduces to minus "b" over two "a". For 10 points each—
A.   Give the name of this formula used to find the roots of the equation "a" "x" squared plus "b" "x" plus "c" equals zero.
answer: **quadratic** formula
B.   When the discriminant of an equation is negative, both of the equation's roots will be what kind of number?
answer: **complex** numbers (prompt on "imaginary")
C.   While the quadratic equation solves equations of degree two, the Abel-Ruffini theorem states that no general solution exists for equations of this degree or higher.
answer: degree **5** or **quintic** equations

9. For 10 points each—name these social sciences:
A.   This term derived from Greek for "ancient study" seeks cultural artifacts from past civilizations. Colin Renfrew and Paul Bahn authored an influential textbook on its "theories, methods and practice."
answer: **archeology** [the textbook is *Archaeology: Theories, Methods and Practice*.]
B.   A Nobel prize for this field was first awarded in 1969. Recipients have included Milton Friedman, John Nash, and Paul Krugman.
answer: **economic**s (or **economic science**s)
C.   This statistical analysis of populations may study birth rates or ethnic origins. The organization known by the acronym CIRCED is interested in this field.
answer: **demography** or **demographic**s [CIRCED is the Committee for International Cooperation in National Research in Demography.]

10. Characters in this work include Isabella Linton and Frances Earnshaw. For 10 points each—
A.   Name this British novel that begins when Lockwood rents a house called Thrushcross Grange and asks his housekeeper Nelly Dean to explain the history of the nearby people.
answer: **Wuthering Heights**
B.   *Wuthering Heights* is authored by a member of this family whose writers included Charlotte and Emily.
answer: **Brontë** [the work is by Emily]
C.   This sibling of Charlotte and Emily wrote the novels *Agnes Grey* and *The Tenant of Wildfell Hall*.
answer: **Anne** Brontë

11. For 10 points each—name these Leonardo da Vinci works:
A.   Perhaps the world's most famous painting is this portrait of a woman with a subtle smile. It depicts the wife of Francesco del Giocondo.
answer: **Mona Lisa** (prompt on "La Gioconda")
B.   This painting is in the convent of Santa Maria delle Grazie in Milan. Thirteen individuals are shown in this painting restored by Pinin Brambilla Barcilon.
answer: The **Last Supper**
C.   Often said to be da Vinci's first work, this painting in the Uffizi [oo-FEET-zee] Gallery depicts the moment when Gabriel tells Mary she would give birth.
answer: **Annunciation**

12. This leader merged several factions into the Falange political party. For 10 points each—
A.   Name this man who ruled as "El Caudillo". After his 1975 death, Juan Carlos became a king.
answer: Francisco **Franco**
B.   Franco was a leader of what country whose cities include Barcelona and Madrid?
answer: Kingdom of **Spain** or Reino de **España**
C.   Franco's regime is often cited as an example of this political ideology that stresses one-party rule,
nationalism, and a controlled economy. Often a dictatorship, Robert Paxton wrote a book titled "The
Anatomy" of this.
answer: **Fascism** (accept word forms; accept The **Anatomy of Fascism**)

13. For 10 points each—name these Edgar Allan Poe works:
A.   This poem which begins "Once upon a midnight dreary" tells of a narrator grieving for a lost love
visited by a bird who is quoted as saying "nevermore."
answer: The **Raven**
B.   A narrator visits a friend named Roderick who buries his ill sister. The short story ends with the
family's home sinking into the ground.
answer: The **Fall of the House of Usher**
C.   In this story William Legrand is bitten by a shiny insect. Deciphering a nearby parchment leads
the characters to a buried treasure.
answer: The **Gold-Bug**

14. Airbags work through this kind of chemical reaction when sodium azide is heated into sodium and
nitrogen gas. For 10 points each—
A.   Name this type of reaction symbolized as substance "AB" becoming substances "A" and "B."
answer: **decomposition**
B.   Water can be broken down into its constituent gases through this process, the introduction of a
current to drive a reaction.
answer: **electrolysis**
C.   Electrolysis is a step in the Hall-Heroult process, which smelts this element found in bauxite ore.
Corundum is a crystal form of this element's oxide.
answer: **aluminum**

15.   This term is a portmanteau and refers to the steps to be taken as the result of a June 2016
referendum. For 10 points each—
A.   Give this term for the process by which the United Kingdom will leave the European Union.
answer: **Brexit**
B.   Brexit was formally initiated in March 2017 per the procedure outlined in Article 50 of this treaty. It
is named for the southwestern European capital where it was signed.
answer: Treaty of **Lisbon**
C.   The newest member of the EU is this country which joined in 2013. Its leader, Kolinda
Grabar-Kitarović works in its Presidential palace at Zagreb.
answer: Republic of **Croatia**

16. Count Rostov dies in this novel's epilogue. For 10 points each—
A.   Name this Russian novel whose characters include Pierre Bezukhov and Anna Pavlovna Scherer. It is titled for periods of conflict and tranquility in the early 19th century.
answer: **War and Peace** or **Voyná i mir**
B.   *War and Peace* is by what Russian author of the novella *The Death of Ivan Ilyich*?
answer: Leo **Tolstoy**
C.   Tolstoy also wrote a novel about this character who is married to Alexei but has an affair with Count Vronsky. After a fight with Vronsky she throws herself under a train.
answer: **Anna Karenina** (accept either underlined name)

17. This colony was merged with the Massachusetts Bay Colony in 1691. For 10 points each--
A.   Name this colony founded by the Pilgrims, later commemorated when the year 1620 was carved into a nearby rock.
answer: **Plymouth** Colony (accept **Plymouth Rock**)
B.   Forty-one of the journey's passengers signed this agreement that laid the intent for colonial government. It begins by describing the subjects as loyal to King James.
answer: The **Mayflower Compact**
C.   One Compact signer was this military advisor. A Henry Wadsworth Longfellow poem describes his unrequited love for Priscilla Mullins.
answer: Myles (or Miles) **Standish** (accept The **Courtship of Miles Standish**)

18. For 10 points each—name these anaesthetic gases:
A.   This gas with chemical formula N_2O can be used in whipped cream aerosol canisters, and the euphoric effect it creates was exploited as an anaesthetic in the 19th century.
answer: **laughing** gas or **nitrous oxide**
B.   This gas known to chemists as trichloromethane or $CHCl_3$ is a useful solvent, but the Scottish obstetrician James Young Simpson promoted its use as an anaesthetic.
answer: **chloroform**
C.   A team led by John H. Lawrence was the first to publish on the ability of this period 5 element to relax muscles in mice. The gas's discoverer, William Ramsay, named it for its strange properties.
answer: **xenon** [the Greek term xenos means "strange" or "foreign."]

19. For 10 points each—give these answers related to countries no longer on the map:
A.   In 1964 the African countries of Tanganyika [TAN-guh-NEE-kah] and Zanzibar merged to form this country whose name incorporates syllables from both predecessors.
answer: United Republic of **Tanzania**
B.   Montenegro, Kosovo, and Slovenia were all part of this country that broke up in the early 1990s. Josip Broz Tito ruled it for 27 years.
answer: **Yugoslavia** (or Kingdom of **Yugoslavia** or Socialist Federal Republic of **Yugoslavia**)
C.   Between the 1960s and 1990 there were North and South countries with this name. A current conflict here rages between Houthis, President Abdrabbuh Mansur Hadi, and others.
answer: Republic of **Yemen**

20. Walmart lowered its total needed for free shipping to $35 of online purchases, a move many thought would help it compete with this rival. For 10 points each—
A.   Name this company founded by Jeff Bezos [BAY-zos] whose revenue includes subscriptions from its Prime members.
Answer: **Amazon**.com
B.   One original program streamed by Amazon Video is this one based on a Philip K. Dick novel about an alternative history in which the United States lost World War II.
Answer: The **Man in the High Castle**
C.   Amazon's EC2 is an example of this type of shared computing resource. Models for this type of "on-demand" access include "Infrastructure as a Service."
Answer: **cloud** computing [EC2 stands for Elastic Compute Cloud]

21. Jihadist groups operating out of this country include Abu Sayyaf and Ansar Khalifa. For 10 points each—
A.   Name this country where the police force has cracked down on drugs in Operation Double Barrel. This country's capital is Manila.
answer: Republic of the **Philippines** or Republika ng **Pilipinas**
B.   The drug war has been a major emphasis by this man who assumed the Philippine presidency in 2016.
answer: Rodrigo ("Rody") **Duterte** [doo-TUR-tay]
C.   Duterte drew widespread condemnation when he compared his country's 3 million drug addicts to the millions killed in this 1940s genocide. This term is derived from ancient words for burnt offerings.
answer: **holocaust**

22. This process helped to create many of the landmarks in Arches National Park. For 10 points each—
A.   Name this process by which wind or water flow breaks down rock and moves soil from one location to another.
answer: **erosion**
B.   Eroded materials may accumulate to form this class of rocks that includes gypsum and sandstone. Examples of these formed by pieces of eroded rocks are called clastic.
answer: **sedimentary** rocks
C.   Erosion and deposition of a meandering river can create these U-shaped lakes cut off from the flowing water. Australians call these "billabongs".
answer: **oxbow** lakes