

## SCOP Novice 13

# Round 7

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### Tossups

- 1) **Detecting the so-far unknown decay of these particles was the actual goal of the Super-Kamiokande neutrino detector. Cosmic rays are mostly made up of these particles or composites of them. These particles are made up of two (\*) up quarks and a down quark, which gives them a charge of “plus e.” An atom’s atomic number is the number of these particles it has. For ten points, name these positively-charged particles that are found inside the nucleus.**

ANSWER: proton

- 2) **The title character of this franchise goes to space in a joke spin off game made for a “#CancelCancer” charity live stream. During a minigame in this franchise, the player’s stuffed animal, which may represent his father, tells him (\*) “I will put you back together.” Glam rock versions of this game's main characters appear in the 2021 game *Security Breach*. The player is a night guard trying to survive in, for ten points, what long-running point-and-click horror video game series about haunted animatronics with a 2023 film adaptation?**

ANSWER: Five Nights at Freddy's (accept FNAF [f-naff]; accept F-N-A-F spelled out; accept Freddy In Space 2; accept Five Nights at Freddy's: Security Breach or Five Nights at Freddy's: Security Breach: Ruin)

- 3) **During World War I, this scientist used hollow needles containing radon to sterilize infected tissue. A unit of radioactivity is named for this scientist and (\*) her husband. The scientist died from aplastic anemia and was buried in a lead-lined coffin because of the subject of her research. For ten points, name this scientist, the first woman to win a Nobel prize, who successfully isolated radium.**

ANSWER: Marie Curie (accept Maria Salomea Skłodowska-Curie)

- 4) **In 2007 at this landmark, the Hualapai [wah-lah-pah-ee] tribe opened a U-shaped skywalk. The two largest artificial reservoirs in the U.S., Lake (\*) Powell and Lake Mead, essentially lie on opposite ends of this landmark, which is roughly 277 miles long and is often the concern of conflicts between modern tourism and Pueblo traditions. The Colorado River carved out, for ten points, what major natural landmark in the desert of Arizona?**

ANSWER: Grand Canyon

- 5) **This document provides a list of Facts to be “submitted to a candid world,” the last of which complains about “the merciless Indian Savages.” The pledge “Enemies in War, in Peace Friends” is made by this document, which proclaims that (\*) “certain unalienable Rights,” including “Life, Liberty, and the pursuit of Happiness,” have been violated by King George III. The words “In Congress, July 4, 1776” appear at the top of, for ten points, what founding document of the United States?**

ANSWER: Declaration of Independence

- 6) **In this novel, Petit Gervais and Bishop Myriel are robbed by a convict who becomes rich by investing in a rosary factory under the name Monsieur Madeleine. In this novel, (\*) Fantine begs the same convict to care for her daughter, Cosette, with whom he flees to Paris to escape from Inspector Javert. Jean Valjean rescues his adopted daughter's fiance during the June Rebellion in, for ten points, what novel by Victor Hugo about the destitute people of France?**

ANSWER: Les Misérables (prompt on “Les Mis”)

- 7) **This country formed from the union of Nejd and Hejaz in 1932. This country's Wahhabist ruling family ensured that it was the last country in the world to permit women to drive cars. Jamal Khashoggi was assassinated in 2018 on the order of (\*) Mohammed bin Salman, the Crown Prince of this country. A namesake royal family rules, for ten points, what large Middle Eastern country that is home to the cities of Riyadh [ree-YAHD], Medina, and Makkah?**

ANSWER: Saudi Arabia (accept Kingdom of Saudi Arabia; accept Al-Mamlakah al-‘Arabīyah as-Su‘ūdīyah)

- 8) **In this city, Renzo Piano designed a replacement for Southwark Towers whose pyramidal structure gave it the nickname “The Shard.” This city's Bankside Power Station was repurposed into the (\*) Tate Modern art gallery, and Christopher Wren rebuilt its Saint Paul's Cathedral on Ludgate Hill after a Great Fire in 1666 that did not reach as far west as Buckingham Palace. For ten points, name this city where the Tower Bridge can be used to cross the River Thames [temz], the capital of the United Kingdom.**

ANSWER: London

- 9) **This literary animal is offered a “daimen-icker in a thrave,” or an ear of grain in a sheaf, in a poem that calls it a “wee” and “tim'rous beastie.” A poem titled for this animal apologizes that “Man's dominion / has broken Nature's social union” because the speaker has destroyed this animal's nest with his plow. “The (\*) best-laid schemes” of this animal “an' Men / gang aft agley” or “often go awry” in a poem named for this animal. For ten points, name this rodent from a poem by Robert Burns that is known for squeaking and eating cheese.**

ANSWER: mouse (accept mice; accept To a Mouse, On Turning her up in her Nest, with the Plough, November 1785)

- 10) **Acrocorinth gifted this god the isthmus of Corinth after he and Helios fought over the city. Minos prayed to this god to help him claim the throne of Crete, who responded by sending Minos a white (\*) bull who would become the father of the Minotaur. This god sent a monster to attack Laomedon, who had refused to give this god the immortal horses he was promised for building the walls of Troy. For ten points, name this god who causes earthquakes with his trident, the Greek god of the ocean.**

ANSWER: Poseidon

- 11) **This compound and theobromine, a xanthine [zan-theen] analog of it, are the main products harvested from the kola nut. This chemical, an alkaloid which is found naturally in plants of the *Camellia* genus, activates (\*) adenosine receptors to prevent drowsiness. The South American holly plant yerba mate [yer-bah mah-tay] and *Coffea arabica* are major natural sources of this chemical. For ten points, name this stimulant consumed in tea and coffee.**

ANSWER: caffeine

- 12) **The mayor of this city re-enacts a medieval tradition in which a ring is thrown into the sea each year. Enrico Dandolo supplied a fleet for the Fourth Crusade as a (\*) doge [dohj] ruling this city. In the fifteenth to the eighteenth centuries, this “Most Serene Republic” rivaled Genoa, Milan, and Florence for control of northern Italy. For ten points, name this Italian city-state that built a navy to protect its harbor, lagoon, and many canals.**

ANSWER: Venice (accept (Most Serene) Republic of Venice; accept Venezia)

- 13) **Distinct biographies and personalities distinguish Fernando Pessoa’s heteronyms from these things. Thomas Jefferson Snodgrass preceded a famous one of these inspired by a steamboat worker measuring ocean depth as (\*) “mark twain.” To avoid sexism, female authors like Isak Dinesen and George Eliot used male examples of these things. For ten points, name these fictional identities used to publish works by authors like George Orwell.**

ANSWER: pen names (accept nom de plume; accept literary double; accept pseudonyms; prompt on “names”)

- 14) **This case's ruling was opposed by the Hyde Amendment. The plaintiff in this case, Norma McCorvey, used a pseudonym against the Dallas County District Attorney. This case ruled that the right to privacy applied for (\*) women seeking the procedure in question during the first trimester. For ten points, name this Supreme Court case overturned along with *Planned Parenthood v. Casey* in *Dobbs v. Jackson Women's Health Organization*.**

ANSWER: Roe v. Wade

- 15) **In this novel, a little girl tells Reverend Wilson that, instead of being born, she was grown from the rose bush near her mother's prison door. This novel's protagonist hides her marriage to Roger (\*) Chillingworth, and begs Arthur Dimmesdale to let her keep custody of her illegitimate daughter, Pearl. Hester Prynne must wear the title symbol of adultery in, for ten points, what novel by Nathaniel Hawthorne named for an embroidered red “A?”**

ANSWER: The Scarlet Letter

- 16) **This holiday was celebrated by quarto-decimans on the fourteenth day of Nisan, before it was separated from Passover and became a movable feast determined by the First Council of Nicaea. This holiday is preceded by a forty-day period of solemn repentance called (\*) Lent. This holiday falls four days after Maundy Thursday and three days after Good Friday, which commemorates the crucifixion. For ten points, name this Christian festival in which celebrants might commemorate the resurrection of Jesus with festive eggs.**

ANSWER: Easter (accept Easter Sunday; accept Pascha; do not accept or prompt on “Passover” or “Pesach” during the first clue, since quartodecimans were Christians who did not celebrate the Jewish holiday)

- 17) **The gamma function generalizes this operation. The number of seconds in six weeks is equal to this operation applied to the number ten. Applying this operation to  $n$  gives the number of (\*) permutations of  $n$  objects; for example, there are one-hundred-twenty different ways to order five objects. For ten points, name this mathematical operation that involves multiplying a positive integer by all the positive integers less than it, an operation symbolized by an exclamation point.**

ANSWER: factorial

- 18) **One of these statements concerns the fact that a thousand grains falling to the floor will make a sound, but a single grain would be silent. Calculus can be used to resolve some of these statements, posed by (\*) Zeno of Elea, one of which argues that a running Achilles can never pass a walking tortoise. “This statement is false” is a famous example of, for ten points, what type of confusing, self-contradictory statement?**

ANSWER: paradox (accept Zeno's paradoxes)

- 19) **This composer wrote a 5/4 “limping” waltz for the second movement of his sixth symphony, which he premiered nine days before his death. This composer of the *Pathétique* symphony and the opera (\*) *Eugene Onegin* included an indeterminately large brass band and carillon in the score for a piece that includes the French national anthem as Napoleon's theme. For ten points, name this Russian composer who included cannonfire in his *1812 Overture*.**

ANSWER: Pyotr Ilyich Tchaikovsky

- 20) **A group of this general type of organisms may exhibit crown shyness, creating visual channels that may protect against the spread of disease. These organisms are the foundation of a four-layer classification that includes an emergent layer, a (\*) canopy, an understory, and a floor; that classification is applied to temperate as well as tropical biomes that are dominated by these plants. For ten points, name these plants that are cleared and harvested during deforestation.**

ANSWER: tree (accept any specific kind of tree; prompt on “plant” before it is read in the last sentence)

## Bonuses

- 1) Give the following about the massive 1813 Battle of Leipzig for ten points each.

Over five-hundred-thousand soldiers fought at the Battle of Leipzig, which ended in a crushing defeat and eventual exile to Elba for this emperor of France.

ANSWER: Napoleon Bonaparte (accept either or both names; accept Napoleon I of France)

The Battle of Leipzig caused the collapse of a Napoleon-supported Confederation named for this river, which forms much of the modern border between France and Germany.

ANSWER: Rhine River (accept Confederation of the Rhine)

Napoleon was defeated at Leipzig by the sixth one of these alliances. In total, seven of these international alliances opposed France between 1792 and 1815.

ANSWER: coalition (accept Sixth Coalition)

- 2) A 1929 essay about these people describes the phrase “Chloe liked Olivia” as a potential paradigm shift in literature. For ten points each,

Name this type of person who, if they are to be able to write fiction, must have money and “A Room of One's Own,” according to lectures given by the author of *To The Lighthouse*.

ANSWER: women (accept equivalents, like girls)

This feminist author wrote the essay “A Room of One's Own” and the novel *To The Lighthouse*.

ANSWER: Virginia Woolf (accept Adeline Virginia Stephen Woolf)

Woolf contrasts the line “Chloe liked Olivia” with a line from Shakespeare's *Antony and Cleopatra*, in which “Cleopatra did not like Octavia [...] Cleopatra's only feeling about Octavia is one of” this emotion. In *Othello*, Iago tells Othello that this emotion is a “green-eyed monster.”

ANSWER: jealousy (accept word forms like jealousness; do not accept “envy”)

- 3) A 2014 film by this director made roughly sixty thousand dollars in profits from selling some of the corn they planted for one of its settings. For ten points each,

Name this filmmaker behind *Interstellar*, who also directed *Inception*, the trilogy of Christian Bale's *Batman* films, and a recent hit about a theoretical physicist.

ANSWER: Christopher Nolan

Christopher Nolan's most recent film was this 2023 blockbuster, which was released on the same day as Greta Gerwig's *Barbie*.

ANSWER: Oppenheimer (prompt on “Barbenheimer” or “Barbieheimer”)

This Irish actor starred as J. Robert Oppenheimer and has appeared in every aforementioned Nolan film. This actor played the Scarecrow in all three of Nolan's *Batman* movies.

ANSWER: Cillian Murphy

- 4) This artist painted outdoor scenes of cypress trees, grain stacks, and the Rouen cathedral, using large brush strokes to mimic the play of natural light. For ten points each,

Name this French artist who created several paintings of the green, Japanese-style arch bridge in his garden.

ANSWER: Claude Monet (accept Oscar-Claude Monet or Claude Oscar Monet; be careful: do not accept or prompt on “Manet”)

Monet's [moh-NAY's] arched bridge often appears over his many paintings of these flowers, which he painted floating on top of his garden pond.

ANSWER: water lilies (accept nympeas; prompt on “lily pad;” do not accept or prompt on “lily” alone, since water lilies are not true lilies)

Monet was one of the pioneers of this artistic movement. He inadvertently gave this movement its name when he exhibited a painting of a sunrise over ships in a fog in the port of Le Havre.

ANSWER: Impressionism (accept word forms like Impressionist movement; accept Impression, Sunrise or Impression, soleil levant)

- 5) In some traditions, this holiday celebrates Krishna's defeat of Narakasura, and it is commonly celebrated with rangoli patterns and diya lamps. For ten points each,

Name this five-day, late-autumn Hindu festival named for the “rows of lights” that are lit during it.

ANSWER: **Diwali** (accept **Divali**; accept **Deepawali** or **Deepavali**)

Diwali also celebrates the return of Sita and this legendary hero at the end of his namesake epic.

ANSWER: **Rama**

Since Diwali marks the beginning of the fiscal year, it also honors this Hindu goddess of wealth and commerce.

ANSWER: **Lakshmi**

- 6) Technetium is both the lightest synthetic element and the lightest element for which all isotopes naturally undergo this behavior. For ten points each,

Name this physical process in which an unstable atomic nucleus attempts to reach a more stable state by giving off radiation.

ANSWER: radioactive **decay** (accept word forms; accept **radioactivity** and word forms like **radioactive**; accept nuclear **decay**)

In this type of radioactive decay, a particle that is essentially just a helium nucleus is emitted. As a result, an element undergoing this decay will have its atomic number drop by two.

ANSWER: **alpha** decay (accept **alpha** particle)

Alpha decay is generally only seen in elements with mass greater than or equal to this 28-proton element, whose chemical symbol is Ni [N-I].

ANSWER: **nickel**

- 7) The 2023 catalog for these events in the Atlantic Ocean included “Idalia,” “Margot,” and “Nigel,” replacing “Irma,” “Maria,” and “Nate” from 2017. For ten points each,

Name this weather phenomenon that most typically occurs during a June-to-November season. The names of these events repeat on a six-year cycle, but are retired if one of these phenomena is particularly damaging.

ANSWER: **hurricanes** (prompt on “tropical storm(s);” prompt on “tropical depression(s);” prompt on “cyclone;” do not accept or prompt on “typhoon”)

In August 2023, this hurricane became the first storm to reach landfall in California with at least tropical storm strength in a quarter century.

ANSWER: Hurricane **Hilary**

Also in August 2023, the winds of Hurricane Dora fueled devastating wildfires in the town of Lahaina on this Hawaiian island.

ANSWER: **Maui**

- 8) Sigma bonds and pi bonds are examples of this kind of bond, which occurs in diatomic molecules like hydrogen gas. For ten points each,

Name this type of bond in which electrons are shared relatively equally between atoms.

ANSWER: **covalent** bond

Covalent bonds are often contrasted with this type of bond, in which the electrons are shared rather unequally. This type of bond occurs when the two bonding atoms have wildly different electronegativities.

ANSWER: **ionic** bond

All or nothing. These two elements, found in group 3, columns 1 and 17 of the periodic table, will form an ionic bond when they combine to form table salt.

ANSWER: **sodium** and **chlorine** (accept **Na** and **Cl**; because we are talking about their ions as well, accept **sodium** and **chloride**; accept “**Na**-plus” and “**Cl**-minus;” accept answers in either order; both answers required in all cases)



- 9) David Hunter issued this woman a signed pass allowing her access to the Union Commissary during the Civil War. For ten points each,

Name this woman who led the 1863 Raid on Combahee Ferry in South Carolina. Prior to the Civil War, she earned the nickname “Moses” for successfully guiding escaped slaves to freedom in the North.

ANSWER: Harriet **Tubman** (accept Araminta **Moss**)

It took until 1899 for Congress to authorize a military pension for Tubman; when they did, it was merely for her role as a nurse and not for her work as a soldier or for performing this action. Nathan Hale was executed by the British for performing this action.

ANSWER: **spying** (accept **espionage**)

Before the war, this militant abolitionist honored Tubman by calling her “General.” Tubman helped this man plan an 1858 assault on an American arsenal, but was recovering from illness in New York during this man's attack.

ANSWER: John **Brown**

- 10) Gabriel García Márquez touted this author as “the greatest poet of the twentieth century in any language,” For ten points each,

Name this Chilean poet of *Twenty Love Poems and a Song of Despair*, who wrote “Arise to birth with me, my brother,” in his poem “The Heights of Machu Picchu.”

ANSWER: Pablo **Neruda** (accept Ricardo Eliécer Neftalí **Reyes** Basoalto)

Another numbered collection of Neruda's poems contains this many *Sonnets of Love*. Gabriel García Márquez wrote a novel about this many *Years of Solitude*.

ANSWER: one **hundred** (accept **cien**; accept One **Hundred Love Sonnets** or One **Hundred Sonnets of Love** or **Cien sonetos de amor**; accept One **Hundred Years of Solitude** or **Cien años de soledad**)

One of Neruda's *Elemental Odes* addresses “woolen” examples of these clothing items with the line “what is good is doubly good.”

ANSWER: **socks** (accept **Ode to My Socks**)

- 11) If a function is differentiable at a point, it will definitely have this property at that point. However, the converse of that statement isn't always true. For ten points each,

Name this property that, for the graph of a function, is often described as “being able to draw the graph without picking up the pencil.”

ANSWER: **continuity** (accept word forms like **continuous**)

This type of elementary function, which only consists of coefficients and variables raised to positive integer powers, is continuous everywhere. Examples of these functions include “ $x$  squared” or “ $x$  cubed minus 2.”

ANSWER: **polynomial** function

If a function has a sharp turn, it will be continuous but not differentiable at the turn. A basic example is the graph of this function, which looks like the letter V; it's based on an operation that always outputs a positive value or zero.

ANSWER: **absolute value** function (accept descriptions like “ $y$  equals the **absolute value** of  $x$ ”)

- 12) These mythical creatures sometimes look like the half-bird, half-human harpies, but are sometimes depicted with fish tails instead. For ten points each,

Name these Greek monsters that, in the *Odyssey*, sing enticing songs while trying to shipwreck and drown sailors.

ANSWER: **siren** (accept **sirens**; do not accept or prompt on “mermaids”)

This mythical Irish creature is also known for her voice, since she screams or wails to foretell a death.

ANSWER: **Banshee** (accept **bean sidhe**)

This Mexican spirit is a “Crying Woman” who sobs near rivers in remorse for killing her children to get revenge on her cheating husband.

ANSWER: La **Llorona** [La yoh-ROH-nah]

- 13) This man founded an ashram on the Sabarmati River, where he promoted a philosophy of nonviolence. For ten points each,

Name this civil rights activist who coined the term “satyagraha” for his campaigns of resistance against, among other forms of injustice, British colonial rule.

ANSWER: Mahatma Gandhi (accept Mohandas Karamchand Gandhi; prompt on “Gandhi” alone)

Gandhi and his followers used non-violent protest to agitate for the independence of this country, which was earned simultaneously with that of Pakistan.

ANSWER: India (accept Republic of India; accept Bharat Ganrajya)

In 1930, the Sabarmati Ashram was the starting point for a three-week-long march to the coastal village of Dandi, where Gandhi and his followers protested by illegally harvesting this foodstuff.

ANSWER: sea salt (accept Salt March)

- 14) Give the following about the Hertzsprung-Russell diagram, for ten points each.

The H-R diagram is a scatter plot of these astronomical objects. The diagram's horizontal axis provides their spectral class, and the vertical axis provides their luminosity.

ANSWER: stars

The bottom left corner of the H-R diagram is populated by these stars, which are technically remnants of the cores of failed stars. These bodies are named for their color and size.

ANSWER: white dwarf (prompt on “white” or “dwarf” alone)

The H-R diagram features a prominent diagonal, from upper left to lower right, that is given this name. Most stars, including our Sun, lie along this band.

ANSWER: main sequenence

- 15) Around the turn of the 20th century, this type of tax funded nearly the entire U.S. government, much of which went to federal military pensions. For ten points each,

Give this term for a tax that is levied on imported or exported goods. Advocates of free trade want to get rid of these taxes and other restrictive laws.

ANSWER: **tariff**

The political split over tariffs was due, in part, to the fact that Southern soldiers did not earn pensions if they fought for this country in a war that lasted between 1861 and 1865.

ANSWER: **Confederacy** (accept **Confederate** States of America; accept **CSA**)

Tariff reformers advocated to replace tariffs with a federal income tax, and they got their wish via this Constitutional amendment. This amendment was ratified in 1913, mere weeks before the ratification of an amendment providing for direct election of Senators.

ANSWER: **sixteenth** amendment (accept amendment **sixteen**)

- 16) Not every march sounds as raucous and cheery as John Philip Sousa's "Stars and Stripes Forever." For ten points each,

This type of event names a very slow, somber style of march, typically written in a minor key. Frederic Chopin composed a famous example of these marches, which was played for hundreds of mourners at his own one of these events.

ANSWER: **funeral** (accept **funeral** march)

The second movement of this Beethoven symphony is a funeral march. Beethoven originally dedicated this work to Napoleon, but tore out the dedication after Napoleon declared himself Emperor. You can give either the number or the nickname.

ANSWER: Symphony Number **Three** (accept **Eroica** Symphony; accept **Heroic** Symphony)

In the 1950s, a theme from Charles Gounod's [charles goo-NOH's] *Funeral March of a Marionette* became the theme song for a TV series presented by this man, who directed suspenseful films like *Psycho* and *The Birds*.

ANSWER: Alfred **Hitchcock** (accept Sir Alfred Joseph **Hitchcock**)

- 17) This title character is named for a real Iroquois chief, but appears in his namesake poem as an Ojibwe man who lives “by the shores of Gitche Gumee.” For ten points each,

Name this man who is raised by Nokomis and falls in love with Minnehaha.

ANSWER: **Hiawatha** (accept The **Song of Hiawatha**)

*The Song of Hiawatha* is by this American poet, who also wrote *The Village Blacksmith* and *Evangeline*.

ANSWER: Henry Wadsworth **Longfellow**

In another semi-historical poem by Longfellow, this American silversmith's “midnight ride” takes him through Massachusetts to warn American colonists that the British are coming.

ANSWER: Paul **Revere** (accept **Paul Revere's Ride**)

- 18) This stage of pre-natal development begins with a single-celled zygote and includes the formation of a nervous system. For ten points each,

Name this early stage of animal development. In humans, the word “fetus” is used instead of this term after eight weeks of development.

ANSWER: **embryo** (accept word forms, like **embryonic** development; do not accept “blastocyst”)

The word “embryo” typically applies once a blastocyst has implanted into the wall of this organ, in which the fetus continues to develop until birth.

ANSWER: **uterus** (accept **womb**)

There are ethical debates over the study of this type of cell when it is taken from a pre-implantation blastocyst. These cells have the ability to differentiate into many different types of cells, and thus have potential promise in medical research.

ANSWER: **stem** cells (accept additional information, such as “embryonic **stem** cells”)

- 19) This man, who wrote several essays about the morality of divorce while estranged from his first wife, produced his magnum opus by dictating its thousands of lines to numerous aides and friends. For ten points each,

Name this seventeenth-century English poet of an epic poem about the fall of Adam and Eve, *Paradise Lost*.

ANSWER: John Milton

Milton dictated *Paradise Lost* because he suffered from this ailment, which he lamented in his poem “When I Consider How My Light is Spent.”

ANSWER: blindness (accept descriptions of being unable to see)

In the Milton essay *Areopagitica*, he promoted freedom of speech and lashed out against this practice. Most of Milton's essays on divorce were subject to this fate, making it hard for the public to read them.

ANSWER: censorship (accept word forms like censoring; accept descriptions of “being prevented from publication,” accept descriptions of “having to get a publishing license,” do not accept or prompt on “banning books” or similar answers)

- 20) This city is home to the ruins of Tlatelolco [t-lah-tay-loll-koh], a commercial center for a nearby metropolis in the 15th century. For ten points each,

Name this modern capital city, the most populous city in North America.

ANSWER: Mexico City

Mexico City is also home to the ruins of this dominant Aztec city, which was built on what was an island in Lake Texcoco [tesh-koh-koh].

ANSWER: Tenochtitlan [teh-nohk-teet-lahn]

Just northeast of Mexico City is the ruins of this ancient city, where the Pyramid of the Sun and Pyramid of the Moon were built roughly 1800 years ago.

ANSWER: Teotihuacan [tay-oh-tee-wah-kahn]