

## SCOP Novice 13

# Round 8

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### Tossups

- 1) **In Germany, an ongoing performance of a John Cage piece on this instrument will finish in the year 2640. Dieterich Buxtehude, a virtuoso on this instrument, inspired J.S. Bach to walk 250 miles just to hear him play; Bach later wrote several (\*) *Toccatas and Fugues* for this instrument. A type of keyboard called a manual is used to play, for ten points, what instrument in which one may “pull out the stops” to increase the volume, typically in a cathedral or large church?**

ANSWER: pipe organ

Note: The John Cage piece is called *As Slow As Possible*

- 2) **This deity was syncretized with Khenti-Amentiu [ken-tee ah-men-tee-oo] at Abydos, where he was worshiped as the lord of Duat. This god's sister removed his casket from a column or tree in Byblos that became a symbol of this god as the (\*) djed column. After this son of Geb and Nut was cut into fourteen parts by Set, his wife pieced him back together and resurrected him, giving this father of Horus a deathly green skin tone. For ten points, name this Egyptian death god, the brother-husband of Isis.**

ANSWER: Osiris (accept Asar; accept Usire; accept Anubis before “Duat” is read, because Anubis was also syncretized with Khenti-Amentiu and was worshiped at Abydos)

- 3) **In this novel, Mr Bumble is bribed for information by Monks, who throws away a ring and a locket to hide the protagonist's identity. In this novel, Nancy passes on information that helps Mr Brownlow find and adopt the title character, despite her fear of (\*) Bill Sikes and Fagin's gang. For ten points, name this novel by Charles Dickens in which the title boy befriends the Artful Dodger and becomes a pickpocket in London after he is kicked out of a workplace for begging, “please, sir, I want some more” gruel.**

ANSWER: Oliver Twist (accept Oliver Twist; or, the Parish Boy's Progress)

- 4) **Miller indices are used to identify planes and vectors in these objects. Bragg's law describes the pattern that results when X-rays diffract through these objects. These objects may have “hexagonal close packed” or “face centered cubic” unit cells with size measured by their (\*) lattice constant. These objects are grown up layer-by-layer around a seed nucleus, unlike amorphous solids. Ionic compounds often form, for ten points, what sort of repeated, regular solids?**

ANSWER: crystal (accept crystalline materials)

- 5) **The leader of one of these events responded “Was Christ not crucified?” when asked if he regretted his actions. One of these events was organized by blacksmith Gabriel Prosser and would have involved kidnapping James (\*) Monroe.** The sight of drops of blood on leaves of corn inspired the deadliest American one of these events, which took place in 1831. Nat Turner led, for ten points, what type of uprising that opposed white plantation owners?

ANSWER: slave rebellion (accept equivalents, like slave revolt; prompt on “rebellion” or “revolt” alone)

- 6) **In August 2023, this country broke its record for “most watched TV broadcast” with a match in which Sam Kerr's equalizer in the sixty-third minute was not enough for this country to advance to the final. This home country of the Matildas was the site of the (\*) U.S.'s shootout loss to Sweden during the last World Cup game for Megan Rapinoe.** The 2023 FIFA Women's World Cup was co-hosted by New Zealand and, for ten points, what country's cities of Melbourne and Sydney?

ANSWER: Australia (accept Commonwealth of Australia)

- 7) **This country is the setting of a play in which Sam and Willie practice ballroom dancing and a novel in which Maureen Smales goes to live with her former servant. This is the home country of the authors of the play (\*) *Master Harold...and the Boys* and the novel *July's People*.** Athol Fugard, Nadine Gordimer, and Alan Paton are from, for ten points, what setting of *Cry, the Beloved Country*, in which Stephen Kumalo struggles with the effects of apartheid in Johannesburg?

ANSWER: South Africa (accept Republic of South Africa; accept RSA)

- 8) **This politician asked his citizens to “Arm yourselves, and be ye men of valor” in his first speech as leader. This man used the phrase “total and unmitigated defeat” in Parliament to describe the appeasement of (\*) Neville Chamberlain's Munich Agreement with Adolf Hitler.** A line between Stettin and Trieste was described as an “Iron Curtain” by, for ten points, what Prime Minister who led the UK during World War II?

ANSWER: Winston Churchill (accept Sir Winston Leonard Spencer-Churchill)

- 9) **In this desert's Tanezrouft Basin, the French government carried out its first nuclear weapons testing. The salt marshes of the Qattara Depression in this desert reach more than four hundred feet below sea level. This desert names a disputed territory in the (\*) Maghreb on the Atlantic coast, bordering Mauritania.** A transition area called the Sahel separates the mid-African savannah from, for ten points, what largest hot desert in the world?

ANSWER: Sahara Desert (accept Western Sahara after “disputed territory” is read)

- 10) **This planet's surface is marked by “pancake domes” that were imaged by the Magellan probe during a long, 243-day mapping cycle caused by this planet's retrograde rotation. The mountain chain Maxwell Montes is on this planet's continent of (\*) Ishtar Terra. This planet's runaway greenhouse effect gives it the hottest planetary surface temperature in our solar system. For ten points, identify the second planet from the sun, named for the Roman goddess of love.**

ANSWER: Venus

- 11) **An artifact from this event became the first piece of wood on the Moon during the *Apollo 11* mission. The *Dayton Journal* initially refused to report on this event, noting that at its peak, it only lasted fifty-nine seconds. This event took place at (\*) Kill Devil Hills on the Outer Banks of North Carolina, near Kitty Hawk. For ten points, name this 1903 event, a landmark event in aviation carried out by the Wright brothers.**

ANSWER: the first flight (accept the Wright brothers' flight; accept additional information, such as the first sustained manned powered airplane flight)

- 12) **Rubber-bulbed glass pipettes are named for this scientist, who first discovered that fermentation is slower in the presence of oxygen. The first anthrax and rabies (\*) vaccines were made by this scientist, who is credited for saving the wine and silk industries by showing that sealing a glass tube prevents the spontaneous generation of micro-organisms. For ten points, name this French chemist who developed a process for sterilizing milk.**

ANSWER: Louis Pasteur (accept pasteurize or pasteurization)

- 13) **This artist painted numerous Venus de Milos in *The Hallucinogenic Toreador* and created a *Soft Construction with Boiled Beans*. The coast of Catalonia appears in the background of this artist's *The Madonna of Port Lligat*, which was modeled on his wife, (\*) Gala, and in a *Disintegration* of his most famous painting. For ten points, name this Spanish painter with a famous moustache, whose Surrealist paintings include *The Persistence of Memory*, a depiction of soft clocks draped over a box, a face, and a tree.**

ANSWER: Salvador Dalí (accept Salvador Domingo Felipe Jacinto Dalí i Domenech)

Note: the second sentence refers to *The Disintegration of the Persistence of Memory*

- 14) **The leader of this country's National League for Democracy has been imprisoned since a February 2021 coup d'etat, with charges including possession of illegal walkie-talkies. This country's Rakhine State is the site of an ongoing genocide by Buddhists of (\*) Muslims from the Rohingya [ro-HIN-jya] ethnic group. Aung San Suu Kyi [awng sahn soo CHEE] has been held under house arrest by the ruling junta of, for ten points, what Southeast Asian country whose official name before 1989 was Burma?**

ANSWER: Myanmar (accept Republic of the Union of Myanmar; accept Burma before it is read in the last sentence)

- 15) **A low nitrate formula for this substance is described in the *Wu-jing Zong-yao*, written in the eleventh century. This substance was produced while its discoverers were trying to make an elixir of immortality. This substance joins (\*) printing, the compass, and paper as the four great classical inventions of China. Saltpeter, charcoal, and sulfur are mixed to form, for ten points, what combustible black substance that was used in early incendiary weapons and explosive firearms?**

ANSWER: gunpowder (prompt on “black powder;” prompt on “saltpeter” before it is read)

- 16) **A compound inequality that involves this many functions is analyzed by the Squeeze Theorem. A polynomial's graph cannot have a point of inflection if its degree is less than this number. This value equals the ceiling function applied to the number (\*)  $e$ , as well as the floor function applied to  $\pi$ . A line can pass through at most this many quadrants of the Cartesian plane. For ten points, name this number, the highest exponent in a cubic polynomial.**

ANSWER: three

- 17) **A novel named for this literary character is attacked in the opening of James Baldwin's essay “Everybody's Protest Novel,” which criticizes this fictional man's forbearance. Richard Wright began a collection titled for this fictional man's *Children* with the essay “The Ethics of Living (\*) Jim Crow.” In a novel named for this man, the Saint Clare family sells him to Simon Legree, who has him beaten to death. For ten points, name this fictional slave whose “Cabin” titles a pre-Civil War novel by Harriet Beecher Stowe.**

ANSWER: Uncle Tom (accept Uncle Tom's Cabin; or, Life Among the Lowly)

- 18) **Joseph Priestley discovered oxygen by heating an oxide of this metal. This element's chloride, which oddly contains two atoms of it and two atoms of chlorine, is the reactive component of the standard calomel electrode. (\*) Amalgams are alloys containing this metal. Fluorescent lights are dangerous to recycle because they contain this element, which forms a poisonous vapor at room temperature. Old thermometers relied on, for ten points, what liquid metal whose atomic symbol is Hg [H-G]?**

ANSWER: mercury (accept Hg [H-G] before it is read in the last sentence)

- 19) **Shinto rites performed in this type of event, including kyuzen-nikku [kyoo-zen-nee-koo] food offerings and seibatsu [say-bah-tsoo] purification, have been borrowed by the Buddhist tradition that dominates these events in modern Japan. A kaimyo, or new (\*) name, can be given to the subject of these events so that their spirit will not be summoned by saying the name they had in life. For ten points, name this ritual that, in Japan, often includes mourners using special chopsticks to pass the bones of a cremated loved one into an urn for burial.**

ANSWER: funeral (accept descriptions of death rites or memorials for the dead; accept burial or internment)

- 20) **At the death of this novel's protagonist, his eulogy is written by Samson Carrasco, a local man who pretends to be both the Knight of the White Moon and the Knight of Mirrors. This novel's protagonist tries to go to El Toboso to find (\*) Dulcinea, a peasant girl he believes is a noble lady, with the help of Sancho Panza. For ten points, name this novel by Miguel de Cervantes about a gentleman who delusionally believes he is a knight, and who tilts at windmills, thinking they are giants.**

ANSWER: **Don Quixote** [kee-HOH-tay] (accept The Ingenious Gentleman **Don Quijote** of La Mancha; accept El Ingenioso hidalgo **Don Quixote** de la Mancha)

## Bonuses

- 1) Octavian's plan to show off this ruler in a triumph in Rome was thwarted by her suicide by poison, not - as is commonly believed - by snakebite. For ten points each,

Name this ancient ruler whose alliance with Marc Antony became the last hurdle for Octavian's consolidation of Roman power.

ANSWER: Cleopatra VII Philopator

It took another year before their forces were finally defeated, but Cleopatra and Mark Antony were effectively doomed after their fleets lost this 31 BCE naval battle to Octavian.

ANSWER: Battle of Actium

Cleopatra and her son Caesarion were the last two Egyptians to hold this royal title. After becoming Emperor Augustus Caesar, Octavian claimed this title.

ANSWER: pharaoh (prompt on “king”)

- 2) This work's prologue ends with the couplet “It's really kind of such a noble Lord / So humanly to gossip with the Devil!” For ten points each,

Name this 19th century play by Johann Wolfgang von Goethe [ger-tuh], often considered the finest play written in German. The title character of this play is a doctor who makes a deal with the Devil.

ANSWER: Faust (accept Faust Part One; do not accept “Doctor Faustus”)

The Devil in Goethe's *Faust* goes by the name Mephistopheles and, at one point, tells a witch not to call him by this alternative name. In Milton's *Paradise Lost*, the fallen Lucifer goes by this name.

ANSWER: Satan

Mephistopheles first meets Faust as a stray one of these animals who follows Faust home.

ANSWER: dog (accept poodle)

- 3) The 1908 experiment that provided evidence for the nucleus of an atom fired alpha particles at this specific material. For ten points each,

Name this incredibly thin material. The experimenters chose to use a very malleable metal element for this material.

ANSWER: **gold foil** (accept **gold foil** experiment; prompt on “gold” or “foil” alone; prompt on descriptions of a “sheet of gold”)

The gold foil experiment is commonly named for this English physicist, though it was carried out by his younger assistants.

ANSWER: Ernest **Rutherford**

This German physicist and his student, Ernest Marsden, did the work for Rutherford because they were patient enough to count the flashes of light created by the deflected alpha particles. Accordingly, a device that counts the particles emitted by radioactive decay is now named for this man.

ANSWER: Hans **Geiger** (accept **Geiger** counter)

- 4) Predict what happens in this biblical bonus, for ten points each.

In the book of Genesis, Joseph interprets these things for a baker, a cupbearer, and the pharaoh in order to predict a famine. Daniel interprets one of these things for King Nebuchadnezzar, who had seen one of these in his sleep.

ANSWER: **dreams**

In the book of Malachi, this renowned prophet is predicted to return before the end times. This prophet defeated the priests of the god Baal before he was taken up to heaven in a chariot of fire.

ANSWER: **Elijah** (be careful; do not accept “Elisha”)

This biblical book of prophecy is often attributed to John of Patmos, and describes the opening of seven seals and the coming of four deadly horsemen.

ANSWER: Book of **Revelation** (be careful; do not accept “Revelations”)

- 5) Give the following about geometry's British Flag Theorem, for ten points each.

The British Flag Theorem concerns the distances of four line segments drawn within one of these quadrilaterals. These shapes have four equal angles, but their parallel sides need not be equal.

ANSWER: **rectangles** (do not accept or prompt on other answers, such as “square” or “parallelogram”)

The theorem is a relationship between the four line segments drawn from a point inside the rectangle to each of the four vertices. To prove the theorem, you need to draw four more segments to that central point, with each segment having this relationship to one of the rectangle's sides.

ANSWER: **perpendicular** (accept descriptions of “meeting the side at a **right angle** or **ninety degree** angle;” accept **orthogonal**)

Note: When you're done, the eight segments look like the British flag, which inspired the theorem's name.

If you instead place the point at one of the four vertices of the rectangle, the British Flag Theorem reduces to this theorem, which concerns the sum of squares of the side lengths of a right triangle.

ANSWER: **Pythagorean** Theorem (accept **Pythagorean** Formula)

- 6) This author followed her most famous novel with sequels like *Jo's Boys*. For ten points each,

Name this author of a Civil War-era novel about the March sisters.

ANSWER: Louisa May **Alcott**

Meg, Jo, and Amy March are three of the four title characters in this coming-of-age novel by Louisa May Alcott.

ANSWER: **Little Women**

This fourth March sister is the only one to die in childhood. This angelic girl contracts scarlet fever while helping a poor family, and becomes so weak that her sewing needle is too heavy to lift.

ANSWER: **Beth** March (accept **Elizabeth** March; prompt on “March” alone)



- 7) These materials are classified as “n-type” or “p-type” based on whether they feature free electrons or free electron holes. For ten points each,

Name this type of material. Gallium arsenide and germanium are classic examples of these materials, whose development was crucial for the invention of transistors, modern computers, and numerous other technologies.

ANSWER: **semiconductor**

N-type and p-type semiconductors have undergone this process, in which impurities are added to the material to make it either more or less conductive.

ANSWER: **doping** (accept word forms like **dope**)

The most prevalent semiconductor, especially in computer processing chips, is this element with atomic symbol Si [S-I].

ANSWER: **silicon**

- 8) Chryselephantine sculptures are named for the materials that decorated them, with the “chrys” part meaning that parts of the sculpture were covered with gold. For ten points each,

The “elephantine” portion of “chryselephantine” indicates that the sculptures are decorated with this white, animal-derived material.

ANSWER: **ivory**

The ancient sculptor Phidias created an enormous chryselephantine sculpture of this Greek goddess of wisdom for the Parthenon.

ANSWER: **Athena** (accept **Athene**; accept **Athena** Parthenos)

This group of statues created for the Parthenon was removed to the British Museum in the early 1800s. It is nicknamed for the English lord who directed their removal from Greece.

ANSWER: **Elgin** Marbles (prompt on “Parthenon Marbles”)

- 9) This policy became startlingly popular in the United States during the early twentieth century “Progressive” Era, with proponents like cereal magnate John Kellogg and eight-ninths of the Supreme Court in a 1927 case. For ten points each,

Give this term for the belief or policy that the human population should be “improved” genetically. In practice, these policies try to prevent some people, such as the poor, the mentally ill, and ethnic minorities, from having children.

ANSWER: eugenics (accept word forms like eugenicism)

Other prominent eugenicists included this inventor of the telephone, who controversially argued that, if Deaf people married Deaf people, it would create a “deaf race.”

ANSWER: Alexander Graham Bell

This woman, a friend of Bell, argued that disabled infants should be killed. This was a confusing position to take, since she also advocated for disability rights after illness rendered her deaf and blind as a one-year-old.

ANSWER: Helen Keller

Note: Please tell the players that the 1927 Supreme Court case in the lead-in is *Buck v. Bell*. We couldn't give you the name during the lead-in because we later asked for Alexander Graham Bell, even though it's a different Mr Bell.

- 10) This thinker, who co-wrote a *Monetary History of the United States*. For ten points each,

Name this twentieth-century University of Chicago economist who, with his wife Anna, argued against most government intervention in *Capitalism and Freedom*.

ANSWER: Milton Friedman

In *Capitalism and Freedom*, Milton argues that this form of government assistance is inefficient and wasteful, using examples like public housing and Social Security. Instead of the currently implemented methods for this type of program, Friedman suggests a type of universal basic income.

ANSWER: social welfare

To improve this type of institution, Friedman suggests providing tuition vouchers to families, allowing them to choose where to spend their money.

ANSWER: school (accept any type of school, such as public, private, parochial, elementary, middle, high, college, university, etc.)

- 11) In this novel, a house at 124 Bluestone Road is haunted by the ghost of a child who was buried with a tombstone with the title word on it. For ten points each,

Name this novel, in which Sethe is tormented by having killed her own daughter to protect her from slavery.

ANSWER: **Beloved**

*Beloved* was written by this author, the first Black woman to win the Nobel Prize in Literature.

ANSWER: Toni **Morrison** (accept Chloe Anthony **Wofford** Morrison; accept Chloe Ardelia **Wofford**)

In *Beloved*, Sethe's family escaped from slavery to this state, where they live at 124 Bluestone Road in Cincinnati.

ANSWER: **Ohio**

- 12) A 2023 strip of the webcomic *xkcd* [X-K-C-D] advertises a hilarious cell phone that folds up like a cootie catcher with an accompanying warning to “try to keep your finger away from the bottom of the phone” because of a partnership with this disgraced company. For ten points each,

Name this biotech company whose supposedly-revolutionary blood tests earned its founder, Elizabeth Holmes, an eleven-year prison sentence for fraud.

ANSWER: **Theranos**, Inc.

This actress, who starred as Katniss in *The Hunger Games* and Mystique in the *X-Men* series, was in talks for years to portray Holmes in a film, but has not yet played her.

ANSWER: Jennifer **Lawrence** (accept Jennifer Shrader **Lawrence**)

After Lawrence's film involvement petered out, Amanda Seyfried played Holmes in *The Dropout*, a miniseries released by this streaming service. Other series streamed by this rival of Netflix include *The Handmaid's Tale* and *The Bear*.

ANSWER: **Hulu**

- 13) Dr. Samuel Mudd controversially set this man's leg, which he broke at some point on the night of April 14th, 1865. For ten points each,

Name this pro-Confederate actor who, in a failed attempt to revive the South's chances in the Civil War, assassinated Abraham Lincoln.

ANSWER: John Wilkes **Booth**

Booth's attack interrupted a performance of *Our American Cousin* at this theater. It re-opened as an active theater in 1968, and it respectfully declines to re-stage *Our American Cousin* or any re-enactments of the assassination.

ANSWER: **Ford's** Theater

After Booth shot Lincoln and jumped from the balcony to the Ford's stage, he shouted this three-word Latin phrase, which translates to "Thus, always, to tyrants."

ANSWER: **Sic semper tyrannis**

- 14) This man led a group that included saxophonists Cannonball Adderley and John Coltrane for his most highly regarded album, a 1959 disc that is based on musical modes. For ten points each,

Name this jazz musician whose landmark albums include *Birth of the Cool* and possibly the most famous jazz album of all time, *Kind of Blue*.

ANSWER: Miles **Davis** (accept Miles Dewey **Davis** III)

On *Kind of Blue* and other albums, Miles Davis played this three-valved brass instrument.

ANSWER: **trumpet**

As an example of modal jazz, *Kind of Blue* shifted away from the complicated chord progressions that are commonly heard in this type of music. Charlie Parker is best known for playing this style of jazz, which dominated the jazz scene in the 1940s after the decline of big band swing music.

ANSWER: **bebop** (accept **bop**)

- 15) Vesicles provide proteins to this organelle from the nearby Golgi apparatus; the vesicles are coated with either COPI or COPII [cop one or cop two] proteins, depending on which direction the vesicles are headed. For ten points each,

Name this organelle, a cellular transport system.

ANSWER: endoplasmic reticulum (accept ER)

The endoplasmic reticulum can be rough and smooth, depending on whether these organelles are attached to it.

ANSWER: ribosome

The ER surrounds the envelope around this organelle, which contains the genetic material of a cell. Eukaryotic [yoo-ka-ree-AH-tik] cells contain this organelle, which red blood cells lack.

ANSWER: cell nucleus

- 16) Using the following clues, invent some answers about mythical inventors, for ten points each.

This Greek inventor built the labyrinth to house the minotaur. When King Minos imprisoned him so he could not reveal the labyrinth's secrets, he built wings out of wax that accidentally killed his son, Icarus.

ANSWER: Daedalus

In Norse myth, magical items like the ship Skithblathnir [skith-blath-neer] and the spear Gungnir were created by the Sons of Ivaldi, a group of these mythical beings who, in modern times, are often depicted as being short.

ANSWER: dwarf (accept dwarves or dwarfs)

In Aztec myths, this god invented the Aztec calendar. This brother of Huitzlopachtli [h-weetz-loh-pock-tlee] also gave maize to mankind.

ANSWER: Quetzalcoatl [ket-zahl-koh-ah-tull]

- 17) One of these events in France swiftly ended in 1720 when it was announced that the Mississippi Company was issuing more in paper money than their gold and silver reserves should allow. For ten points each,

Give this term for a speculative frenzy that occurs when investors drive up the price of a commodity or stock beyond its actual value. The first of these events affected England's South Sea Company mere months before the Mississippi Company collapsed.

ANSWER: **bubble** (accept economic **bubble**; accept financial **bubble**)

The South Sea Company's supposed profits were to come from the *asiento*, a monopoly on providing this practice in Spanish colonies. In 1807 and 1833, Britain passed laws abolishing this practice in its own land.

ANSWER: **slavery** (accept word forms like **enslavement**)

In the 1630s, before the word “bubble” was coined, the price for bulbs of these flowers in the Dutch Republic reached several times a worker's annual salary in what was called their namesake “mania.”

ANSWER: **tulips** (accept **tulip** mania)

- 18) This character remembers how, while his crew were “As idle as a painted ship / Upon a painted ocean,” he saw “slimy things did crawl with legs / upon the slimy sea.” For ten points each,

Name this title character of a 1798 poem, who lamented how there was “water water every where, / nor any drop to drink” while his ship was stuck in a too-calm sea.

ANSWER: the ancient **Mariner** (accept The **Rime of the Ancient Mariner**; accept descriptions of the **main character** in The Rime of the Ancient Mariner)

*The Rime of the Ancient Mariner* is a poem by this English poet, a friend of William Wordsworth.

ANSWER: Samuel Taylor **Coleridge**

In the poem, the superstitious crew believes their ship has been stranded because the Mariner shot one of these large sea birds, whose corpse the Mariner is forced to wear around his neck.

ANSWER: **albatross**

- 19) The ruins of this city have been studied for centuries, including a decades-long period in the twentieth century when the racist Rhodesian government suppressed any scholars who argued that it was built by Black Africans. For ten points each,

Name this “Great” medieval city. The modern African country that succeeded Rhodesia and now has its capital at Harare shares its name with this city.

ANSWER: Great **Zimbabwe**

The ruins of Great Zimbabwe date to the later years of this “Age” of human history, which followed the Stone Age and Bronze Age.

ANSWER: **Iron** Age

Soapstone carvings of this type of animal were found at Great Zimbabwe, inspiring a national symbol that appears on Zimbabwe's flag.

ANSWER: **bird** (accept additional information, like Zimbabwe **bird**; accept **eagles**)

- 20) Give the following about peculiar reversals of water, for ten points each.

The “flood” type, but not the “ebb” type, of this phenomenon can cause a namesake “bore” to travel in the opposite direction of a river's current.

ANSWER: Earth's **tides** (accept flood **tide**; accept ebb **tide**; accept **tidal** bore)

“The water recedes from the beach” is a classic sign that one of these events is about to strike. A ten-year-old British tourist who learned that fact in geography class saved dozens of people when one of these struck Thailand's Indian Ocean coastline in 2004.

ANSWER: **tsunami** (prompt on “tidal wave”)

An 1811 earthquake on the New Madrid [new MAD-rid] example of this geologic feature caused the Mississippi River to flow backward. A far more dangerous example is the San Andreas, which threatens to cause quakes along a 750-mile-long line in California.

ANSWER: **fault** line (prompt on “seismic zone”)