

2015 SAGES: Spring Academic Game for Elementary Students

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Round 7

1. This condition killed fifteen workers building the underwater parts of Eads Bridge in St. Louis. It is treatable with time in a hyperbaric chamber. It commonly causes joint pain in deep-sea divers. For 10 points, name this condition where bubbles form in the body's fluid after a relaxing of pressure.

ANSWER: decompression sickness [accept the bends, caisson disease, decompression illness, arterial gas embolism, barotrauma or dysbarism]

2. COMPUTATION: Olivia has accepted a 4--hour babysitting job and needs to know how much she will earn if she sets the same rate as her friend who earned \$18 for 3 hours. She figures the hourly rate, and applies it to her 4 hour job to find, for 10 points, what amount of money she should earn from this job?

ANSWER: \$24 [The hourly rate is \$6.]

3. This character turns into a cat instead of Millicent Bulstrode. This character's parents are both dentists. She owns a cat named Crookshanks that chases Scabbers, a rat owned by her friend Ron. For 10 points, name this Harry Potter character who knows that it is *not* "levi-o-SA."

ANSWER: Hermione Granger [accept either underlined portion]

4. This politician wrote two *Reports on National Credit*, one of which advocated a National Bank. This opponent of James Madison and Thomas Jefferson created the Federalist Party to promote a strong central government. For 10 points, name this first US Treasury Secretary, who was killed in a duel with Aaron Burr.

ANSWER: Alexander Hamilton

5. This country controls the Canary Islands and the African city of Ceuta. Along with Portugal, this country fought the Reconquista to regain Christian control of the Iberian Peninsula. For 10 points, name this European country with cities such as Barcelona and Sevilla and capital Madrid.

ANSWER: Kingdom of Spain [accept Reino de España]

6. A special form of the endoplasmic reticulum stores this element, which is used for muscle contraction. Limestone is this element's carbonate. This element is needed for strengthening bones and can be obtained by drinking milk. For 10 points, name this element symbolized Ca.

ANSWER: calcium

7. During the Seven Years' War, this country allied with several Native American tribes to fight against Britain. During the American Revolution, this country sent the Marquis de Lafayette and Comte de Rochambeau to the US. For 10 points, name this country where American troops landed at Normandy in 1944.

ANSWER: **France** [accept **French** Republic]

8. This artistic movement focused on light brush strokes and brighter colors, focusing on the depiction of light in nature. Painters in this movement include Cezanne, Renoir and Monet, whose depiction of a sunrise gave this artistic movement its name. For 10 points, name this late 1800's art movement.

ANSWER: **Impressionism** [or **Impressionists**]

9. Marsh-wiggles are native to this country. The River Shribble marks this country's northern border. A former cab driver named Frank was the first king of this country later led by the Pevensie siblings. For 10 points, name this country that can be reached through a magic wardrobe.

ANSWER: **Narnia**

10. In this country, where Alexis Tsipras is prime minister, the SYRIZA party unveiled their Thessaloniki program in 2014. This country might leave the European Union, a process nicknamed "Grexit." For 10 points, name this country whose capital is Athens.

ANSWER: **Greece** [accept **Hellenic Republic** or **Hellas**]

11. This phase change happens in the atmosphere due to adiabatic cooling. As air rises, it loses heat, causing this process. Examples on a smaller scale include a cold glass 'sweating' on a hot and humid summer day. For 10 points, name this process of going from a gas to a liquid, the opposite of evaporation.

ANSWER: **condensation** [accept **liquefaction**; accept word forms of either such as **condensing** or **liquefying**]

12. This instrument was named for its ability to play both loud and soft. One famous player of this instrument was Theolonius Monk. Felt--covered hammers strike the strings contained inside when a player presses its white or black keys. For 10 points, name this instrument which might be a "baby grand."

ANSWER: **pianoforte**

13. President Obama's 2014 executive actions about this process expanded the Deferred Action for Childhood Arrivals program and delayed legal proceedings for undocumented people for five years. For 10 points, name this process, when people move to countries they were not born in.

ANSWER: **immigration** [accept **illegal immigration**]

14. A symbol called a hechsher is used to mark something that meets this set of laws. According to Leviticus, fruit from a tree during its first three years of life does not fall under this Jewish law. For 10 points, name this set of Jewish dietary laws that prohibit mixing meat and milk.

ANSWER: **kosher** laws [accept **kashrut**, **kashruth** and **kashrus**; prompt on **halakha**]

15. Because this language originated in the Castile [*kass-teel*] region, it is also known as castellano [*koss-tay-on-oh*]. In cities like Granada, this language came into contact with Arabic. Writers of this language use a tilde [*till-duh*] in words like año [*on-yo*]. For 10 points, name this language spoken in Madrid and Mexico City.

ANSWER: **Spanish** [accept **español**; accept **castellano** before mentioned]

16. Calorimeters are one way to measure this kind of energy. It is transferred to Earth's surface due to radioactive decay in the Earth's core and from the radiation given off by the sun. It can also be transferred by conduction and convection. For 10 points, name this kind of kinetic energy, sometimes known as heat.

ANSWER: **thermal** energy [accept **heat** energy until mentioned]

17. This 1993 stop--motion film was directed by Henry Selick, not Tim Burton as many assume. In this movie, the king of Halloween Town stumbles on a portal to a new holiday which he comes to enjoy. For 10 points, name this Disney film that features Jack Skellington and Santa Claus.

Answer: *The **Nightmare Before Christmas***

18. COMPUTATION: Bobby is turning his antenna to get better reception and wants to know how many degrees to spin it. His dad told him to spin it one-quarter of a full turn. Bobby knows that a full turn is 360 degrees. For 10 points, how many degrees does Bobby need to turn the antenna for his dad?

ANSWER: **90** degrees

19. This president sent troops to clear out the Bonus Army. Homeless people built communities named after this president after the Great Depression occurred during his term in 1929. For 10 points, name this president whose term also included the beginning stages of building the dam named for him.

ANSWER: Herbert **Hoover**

20. This molecule contains four nitrogenous bases including thymine and adenine. This molecule's shape is a double helix. This molecule can condense into chromosomes. For 10 points, name this molecule that holds genetic information and is often abbreviated from deoxyribonucleic acid.

ANSWER: **DNA** [accept **deoxyribonucleic acid** before mentioned]

TB. This book's inspiration was an experiment led by John B. Calhoun in Maryland. In this book, Mr. Ages and Jeremy try to help the protagonist move her house and her son Timothy before the spring plowing of the garden. For 10 points, the title character helps distract Dragon the cat in, this book by Robert C. O'Brien.

ANSWER: *Mrs. Frisby and the Rats of NIMH*

BONUSES

1. This constitutional amendment is nearly identical to the 15th amendment. For 10 points each:

[10] Name this amendment, ratified in 1920, that gave women the right to vote.

ANSWER: nineteenth (19th) amendment to the U.S. constitution [accept nineteen]

[10] The amendment was strongly supported by this U.S. president at the time.

ANSWER: Woodrow Wilson

[10] The nearly identical 15th amendment protected the right to vote based not on gender but on what other characteristic?

ANSWER: race [accept color; also accept "previous condition of servitude" or equivalents such as whether or not someone had been enslaved]

2. COMPUTATION: James needs to know how much sleep he will get if he goes to sleep right now. His alarm is set to 5:30 AM tomorrow, and it is 10 PM right now. For 10 points each:

[10] How many hours of sleep will James get if he goes to sleep right now?

ANSWER: 7 1/2 hours of sleep (accept 7.5 hours of sleep)

[10] James usually gets 90 points per game at a quiz bowl tournament if he gets 9 hours of sleep. If the proportion doesn't change, how many points can he expect to get on his 7.5 hours of sleep?

ANSWER: 75 points per game

[10] James oversleeps and doesn't arrive at the tournament until 9:30. Each round takes 30 minutes, and the tournament started at 8:00. How many rounds did he miss?

ANSWER: 3 rounds

3. The Sieve of Eratosthenes can be used to find these numbers, of which 2 is the only even one. For 10 points:

[10] Name this kind of number whose only factors are one and itself.

ANSWER: prime numbers

[10] This kind of number is not prime, and has additional factors other than one and itself. The number one is neither prime nor this type of number.

ANSWER: composite number

[10] This is the next prime number after 31.

ANSWER: 37

4. This character's family was cursed by Madame Zeroni. For 10 points each:

[10] Name this character sent to Camp Green Lake after being accused of stealing Clyde Livingston's shoes.

ANSWER: Stanley Yelnats IV [accept either underlined name; accept Caveman]

[10] In another book series by the same author, this school is home to Louis the Yard Teacher and Mrs. Jewls, who teaches on the 30th floor.

ANSWER: Wayside School

[10] *Holes* and the *Wayside School* series were written by this author.

ANSWER: Louis Sachar

5. A fire requires a fuel source, sufficient heat and this substance. For 10 points each:

[10] Name this element, one atom of which is found in water.

ANSWER: oxygen

[10] This form of oxygen consists of three oxygen atoms bound together. It is measured in Dobson units.

ANSWER: ozone

[10] Oxygen makes up about 21 percent of this protective layer of gases surrounding the earth.

ANSWER: atmosphere

6. For 10 points each, answer some questions about an art medium created by Joseph Niepce *[nyeeps]*.

[10] This art medium was used by Mathew Brady during the Civil War. Brady carried around a mobile darkroom along with his camera.

ANSWER: photography

[10] Another famous user of photography was Ansel Adams, who used it to create beautiful landscapes like *Moon and Half Dome* in this California national park.

ANSWER: Yosemite National Park

[10] Digital camera quality is often given in the “mega” version of these units, the smallest individual pieces of a digital image.

ANSWER: pixels [accept megapixels]

7. This writer’s novel *Persuasion* tells the story of Anne Elliot. For 10 points each:

[10] Name this writer whose other works include *Sense and Sensibility* and *Emma*.

ANSWER: Jane Austen

[10] One of Austen’s most famous novels is this one featuring Elizabeth Bennet and Mr. Darcy.

ANSWER: *Pride and Prejudice*

[10] A recent adaptation of *Pride and Prejudice* adds these horror creatures to the plot and gives Mr. Darcy the task of fighting off these ‘unmentionables’.

ANSWER: zombies [accept undead; the new book adaptation is called *Pride and Prejudice and Zombies*]

8. These natural features are formed in a process called orogeny. For 10 points each:

[10] Name these natural features such as Kilimanjaro and Everest.

ANSWER: mountains

[10] The largest known mountain in the solar system is Olympus Mons, located on this planet.

ANSWER: Mars

[10] Block mountains are created when plates slide past another at one of these locations, such as the San Andreas.

ANSWER: fault

9. This battle saw the death of Joseph Warren. For 10 points each:

[10] Name this Revolutionary War battle fought near Boston, mostly on nearby Breed's Hill.

ANSWER: Battle of **Bunker Hill** [accept Battle of **Breed's Hill** before mentioned]

[10] At the battle, Colonials were advised to not shoot until they could see these body parts of the British.

ANSWER: "the **whites** of their eyes" [prompt on **eyes**]

[10] The British feared that their casualties at Bunker Hill would require them to hire Hessians, mercenary soldiers from what is now this European country.

ANSWER: **Germany**

10. Answer these questions about 2013's most annoying song, for 10 points each.

[10] Name this Oscar-winning song with lyrics such as "no right, no wrongs, no rules for me."

ANSWER: **"Let It Go"**

[10] The song was performed by this Broadway actress, whose name John Travolta mispronounced at the Academy Awards.

ANSWER: Idina **Menzel** [begrudgingly accept **Adele Dazeem**]

[10] Menzel sang the song for this 2013 film in which a character asks "Do you want to build a snowman?"

ANSWER: **Frozen**

11. COMPUTATION: Darryl wants to know how many tiles he will need to buy for his kitchen. The floor he wants to cover is 6 feet long and 5 feet wide, and he plans to use tiles that are one square foot each. For 10 points each:

[10] How many tiles does he need for his kitchen?

ANSWER: **30** tiles

[10] If the tile costs \$8.50 per square foot, how much will the tile cost him?

ANSWER: **\$255.00**

[10] If Darryl's kitchen were twice as long and twice as wide, how many tiles would he need?

ANSWER: **120** tiles

12. In 2015, Ruth Bader Ginsburg said that nine women should make up this group. For 10 points each:

[10] Name this highest judicial body in the United States.

ANSWER: **Supreme Court** of the United States [accept **SCOTUS**]

[10] This is the total number of women who have ever been Supreme Court justices, past and present.

ANSWER: **four**

[10] The three currently serving women were in the minority opinion on a 2014 case involving birth control coverage by this craft store.

ANSWER: **Hobby Lobby** [accept **Burwell v. Hobby Lobby**]

13. This punctuation mark is used to mark possessives in English, usually followed by an S. For 10 points each:

[10] Name this punctuation mark which comes *after* the s in many English *plural* possessives.

ANSWER: **apostrophe**

[10] Apostrophes in English are also used to mark where letters are left out of these words, like I'm and shouldn't.

ANSWER: **contractions**

[10] Your teacher might tell you not to use this contraction, but it was used to mean "am not" in the title of a famous speech by Sojourner Truth.

ANSWER: **ain't** [The speech is called **Ain't I a Woman?**.]

14. This often-barking animal is known as "man's best friend". For 10 points each:

[10] Name this animal that might be a Dachshund, golden retriever or chihuahua.

ANSWER: **dog** [accept **Canis lupus familiaris**]

[10] A dog named Laika from this country was the first animal to go to space.

ANSWER: **Russia** [accept **USSR** or **Soviet Union**]

[10] This Russian scientist is famous for his work with dogs. He determined that dogs could be conditioned to salivate even without the presence of food.

ANSWER: Ivan Petrovich **Pavlov**

15. This leader was killed during an arrest attempt after American officials became fearful of him joining the Ghost Dance movement. For 10 points each:

[10] Name this Lakota Native American chief who won the Battle of Little Bighorn.

ANSWER: **Sitting Bull** [accept **Tatanka**]

[10] The loser at Little Bighorn was this American general; Little Bighorn became known as his "last stand."

ANSWER: General George Armstrong **Custer**

[10] Sitting Bull also gave the nickname Little Sure Shot to this female sharpshooter who starred in Buffalo Bill's Wild West show.

ANSWER: Annie **Oakley** Butler [accept Phoebe Ann **Mosey**]

16. These sculptures are common in the Pacific Northwest. For 10 points each:

[10] The largest example of these carvings is 173 feet tall and is located in Alert Bay in British Columbia.

ANSWER: **totem poles**

[10] One character common on totem poles is this flying creature capable of creating clouds and lightning storms.

ANSWER: **thunderbird**

[10] There are many totem poles in Thunderbird Park, which is located in the city of Victoria, the capital of this Canadian province.

ANSWER: **British Columbia**

2015 SAGES

Round 7

17. A pair of apartment buildings on this city's Lake Shore Drive were designed by Ludwig Mies van der Rohe. For 10 points each:

[10] This Midwestern city is also home to the *Cloud Gate* sculpture along Michigan Avenue.

ANSWER: Chicago, Illinois

[10] The tallest building in Chicago is this tower, formerly known as the Sears Tower.

ANSWER: Willis Tower [prompt on Sears Tower if you are interrupted before you mention it]

[10] A Ferris wheel and the Chicago Children's Museum are located on this Chicago attraction along Lake Michigan.

ANSWER: Navy Pier

18. The title character and Templeton the rat help Wilbur in this book written by E.B. White. For 10 points each:

[10] Name this book featuring the title spider and a pig originally raised by Fern.

ANSWER: Charlotte's Web

[10] This man, Fern's uncle, enters Wilbur in the county fair.

ANSWER: Homer Zuckerman [accept either underlined name]

[10] Charlotte, being a spider, lays a number of eggs that hatch. Name any one of Charlotte's children from the book.

ANSWER: Joy, Nellie and Aranea [accept any one of the underlined names]

19. This god turned Io into a heifer to protect her from his wife. For 10 points each:

[10] Name this father of Hephaestus and Ares, the Greek god of the sky and king of the Greek pantheon.

ANSWER: Zeus

[10] This jealous wife and sister of Zeus was trapped on a throne by Hephaestus until he was allowed to marry Aphrodite. The peacock is sacred to this goddess of marriage.

ANSWER: Hera

[10] Zeus and his siblings defeated this other god, his father, to bring the Olympians to power over the Titans.

ANSWER: Cronus

20. According to one myth, this man entertained the satyr Silenus for ten days after some peasants found him wandering in the woods. For 10 points each:

[10] Name this king who was granted a wish by Silenus' teacher that he would later regret. He accidentally transformed his daughter into a statue.

ANSWER: King Midas

[10] Midas' wish was that everything he touched would turn into this precious metal.

ANSWER: gold

[10] Midas' wish was granted by this Greek god of wine.

ANSWER: Dionysus

TB. This medical procedure is depicted in Rembrandt's *The Anatomy Lesson of Dr. Tulp*. For 10 points each:

[10] Name this procedure of determining the cause of death of a body.

ANSWER: **autopsy**

[10] Doctors who specialize in conducting autopsies are known by this name.

ANSWER: **pathologist** [or **medical examiner**]

[10] Investigation of crime scenes for other clues is part of this branch of science.

ANSWER: **forensics**