Twelve

Middle School Regional November 22, 2014

Presented By

North Carolina Association for Scholastic Activities



Group A

- 1) Life Science
- 5) NC Colleges and Univ.
- 9) Arts / Media

Group C

- 3) Writing
- 7) US History
- 11) NC Government

Group B

- 2) World History
- 6) Literature
- 10) Earth Science

Group D

- 4) PE / Sports
- 8) Mathematics
- 12) Technology



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12 Seconds Remaining



Group A Students are seated with line-up in hand.

Round 1 will begin once all line-ups are collected.

School names are on the back of all scoresheets. Do not write your school name on the front.



Question #1:

Bacteriophages are examples of these organisms that attack bacteria. What class of infectious agents includes hepatitis B, HIV, and smallpox?



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Bacteriophages are examples of these organisms that attack bacteria. What class of infectious agents includes hepatitis B, HIV, and smallpox?



Question #2:

What is the name for the class of vertebrates that usually have hair, feed milk to their young, and give live birth?



Question #2:

What is the name for the class of vertebrates that usually have hair, feed milk to their young, and give live birth?



Question #3:

Mutualism, commensualism, and parasitism are examples of what type of long term relationship between two species?



Question #3:

Mutualism, commensualism, and parasitism are examples of what type of long term relationship between two species?



Question #4:

Emphysema and pneumonia are diseases of what paired organ which is responsible for breathing?



Question #4:

Emphysema and pneumonia are diseases of what paired organ which is responsible for breathing?



Question #5:

In plants, the cell wall surrounds what surface that encloses the cell?



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In plants, the cell wall surrounds what surface that encloses the cell?



Question #6:

What type of aquatic plant has "red" and "blue-green" varieties? They include seaweed.



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What type of aquatic plant has "red" and "blue-green" varieties? They include seaweed.



Question #7:

What observable characteristics of an organism are determined by the genotype?



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Question #8:

Finger like protrusions called villi line what organ with "small" and "large" varieties that is important in nutrient absorption?



Question #8:

Finger like protrusions called villi line what organ with "small" and "large" varieties that is important in nutrient absorption?



Question #9:

Bees are lured to flowers by what sweet liquid produced by flowers that is the source of sugar for honey?



Question #9:

Bees are lured to flowers by what sweet liquid produced by flowers that is the source of sugar for honey?



Question #10:

What biological classification lies in between kingdom and class? In the kingdom animalia, examples of this group are chordata, arthropoda, and cnidaria.



Question #10:

What biological classification lies in between kingdom and class? In the kingdom animalia, examples of this group are chordata, arthropoda, and cnidaria.



Question #11:

The Kakum National Park in Ghana and the Amazon are notable examples of what biome characterized by thick vegetation, high species diversity, and high levels of rainfall?



Question #11:

The Kakum National Park in Ghana and the Amazon are notable examples of what biome characterized by thick vegetation, high species diversity, and high levels of rainfall?



Question #12:

Females have two of what chromosome which males generally only have one of?



Question #12:

Females have two of what chromosome which males generally only have one of?



Students have 3 minutes to complete their answer sheets.



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Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Life Science questions follow on next slide.

Advance once all answer sheets have been collected.

Group A Students may return to their team.

Group B Students may be seated.



Answers

- 1) Viruses
- 2) <u>Mammal</u>
- 3) Symbiosis
- 4) <u>Lung</u>s
- 5) Cell <u>Membrane</u> [or Plasma <u>Membrane</u>]
- 6) <u>Algae</u>
- 7) Phenotypes
- 8) <u>Intestine [accept Small Intestine</u> or Large <u>Intestine]</u>
- 9) Nectar
- 10) <u>Phylum</u>
- 11) <u>Tropical Rainforest</u>
- 12) X chromosome



Group B Students are seated and ready to begin.



Question #1:

The title "Empress of India" was given to what longest reigning monarch of England whose namesake period spanned most of the late 1800s?



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The title "Empress of India" was given to what longest reigning monarch of England whose namesake period spanned most of the late 1800s?



Question #2:

Ferdinand and Isabella, the rulers of Aragon and Castile, unified what modern day country?



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Question #3:

In 2009, Hermann de Rompuy became the first president of what organization with capital at Brussels that unites the countries on its namesake continent?



Question #3:

In 2009, Hermann de Rompuy became the first president of what organization with capital at Brussels that unites the countries on its namesake continent?



China?

Round 2: World History

Question #4:

What explorer who sought to reach the Spice Islands by traveling west died after a clash in the Philippines? He led the first expedition to circumnavigate the world.



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Question #4:

What explorer who sought to reach the Spice Islands by traveling west died after a clash in the Philippines? He led the first expedition to circumnavigate the world.



Question #5:

What Frankish ruler who had his capital at Aachen was crowned the first Holy Roman Emperor by Leo III in 800?



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Question #6:

What largest of the Nazi concentration camps had subcamps at Birkenau and Monowitz.



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Question #7:

The Pax Romana began under what first Roman emperor who was the adopted son of Julius Caesar?



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Question #8:

What Hindu leader of the Indian independence movement practiced ahimsa and satyagraha in advocating nonviolence?



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What Hindu leader of the Indian independence movement practiced ahimsa and satyagraha in advocating nonviolence?



Question #9:

Kublai was the grandson of what great khan who unified the Mongols?



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Kublai was the grandson of what great khan who unified the Mongols?



Question #10:

Much of the sugar traded in the Triangular Exchange came from what island which would later be led by the Castro brothers?



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Much of the sugar traded in the Triangular Exchange came from what island which would later be led by the Castro brothers?



Question #11:

What Andean empire was toppled by Spanish conquistadors led by Francisco Pizarro?



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What Andean empire was toppled by Spanish conquistadors led by Francisco Pizarro?



Question #12:

Mansa Musa led what empire with capital at Timbuktu? In 2013, French forces intervened against Islamist fighters in a country with the same name as that empire and in the same place.



Question #12:

Mansa Musa led what empire with capital at Timbuktu? In 2013, French forces intervened against Islamist fighters in a country with the same name as that empire and in the same place.



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for World History questions follow on next slide.

Advance once all answer sheets have been collected.

Group B Students may return to their team.

Group C Students may be seated.



Answers

- 1) Queen Victoria
- 2) Kingdom of <u>Spain</u> [or Reino de <u>España]</u>
- 3) European Union [or EU]
- 4) Ferdinand Magellan
- 5) <u>Charlemagne</u> [or <u>Charles the Great</u> or <u>Carolus Magnus</u> or <u>Karl der Grose</u>]
- 6) Auschwitz
- 7) Gaius Julius Caesar <u>Augustus</u> [or Gaius <u>Octavius</u> Thurinus; or <u>Octavian</u>; do not accept "Julius Caesar"]
- 8) Mohandas Karamchand <u>Gandhi</u> [or <u>Mahatma</u> Gandhi, or <u>Bapu</u> Gandhi]
- 9) Genghis Khan [or Chinghis Khan; or Temujin]
- 10) <u>Cuba</u>
- 11) <u>Inca Empire [or Inka Empire]</u>
- 12) <u>Mali</u>



Group C Students are seated and ready to begin.



Question #1:

What literary term refers to the repetition of consonant sounds?



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Question #2:

What is the term for a verb used as a noun by putting "ing" at the end? An example is the word "Walking" in the phrase "Walking is fun."



Question #2:

What is the term for a verb used as a noun by putting "ing" at the end? An example is the word "Walking" in the phrase "Walking is fun."



Question #3:

What term refers to a thought expressed in poetry as a pair of rhyming lines?



Question #3:

What term refers to a thought expressed in poetry as a pair of rhyming lines?



Question #4:

What part of speech refers to a person, place, or thing? These parts of speech can be subjects or objects.



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What part of speech refers to a person, place, or thing? These parts of speech can be subjects or objects.



Question #5:

What literary term refers to a long speech in a play where a character expresses his feelings, often to another character? This is different from a soliloquy or aside.



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What literary term refers to a long speech in a play where a character expresses his feelings, often to another character? This is different from a soliloquy or aside.



Question #6:

What grammatical term refers to when something happens? In English, these include "past," "present," and "past perfect."



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What grammatical term refers to when something happens? In English, these include "past," "present," and "past perfect."



Question #7:

What is the term for a part of a story in which something from the past is portrayed? For example, in a movie, this could refer to a scene from a character's childhood that interrupts a scene set in the present.



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What is the term for a part of a story in which something from the past is portrayed? For example, in a movie, this could refer to a scene from a character's childhood that interrupts a scene set in the present.



Question #8:

What term refers to a reference book that lets people look up words that mean the same as other words?



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What term refers to a reference book that lets people look up words that mean the same as other words?



Question #9:

What five letter word refers to a category of literature or art? In describing novels, examples of such categories include romance, mystery, and science fiction.



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What five letter word refers to a category of literature or art? In describing novels, examples of such categories include romance, mystery, and science fiction.



Question #10:

What is the term for a term created by putting the first letters of several words together? An example is USA for United States of America.



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What is the term for a term created by putting the first letters of several words together? An example is USA for United States of America.



Question #11:

What part of speech refers to something's position relative to something else? Examples include "under," "on," and "in front of."



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What part of speech refers to something's position relative to something else? Examples include "under," "on," and "in front of."



Question #12:

What is the term for a comparison between two things in literature using "like" or "as?"



Question #12:

What is the term for a comparison between two things in literature using "like" or "as?"



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Writing questions follow on next slide.

Advance once all answer sheets have been collected.

Group C Students may return to their team.

Group D Students may be seated.



Answers

- 1. Alliteration
- 2. Gerund
- 3. Couplet
- 4. Noun
- 5. Monologue
- 6. Tense
- 7. Flashback
- 8. Thesaurus
- 9. Genre
- 10. Acronym
- 11. Preposition
- 12. Simile



Group D Students are seated and ready to begin.



Question #1:

What is the term for a play in baseball in which two outs are recorded during the same continuous playing action?





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What is the term for a play in baseball in which two outs are recorded during the same continuous playing action?





Question #2:

Nephrons are the functional units of what paired organs that excrete urea to produce urine?



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Nephrons are the functional units of what paired organs that excrete urea to produce urine?



Question #3:

What racket sport is played by two athletes who hit a shuttlecock?



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Question #4:

What hormone responsible for the "fight or flight" reflex is produced by a namesake gland?



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Question #5:

What position in football stands behind and supports the defensive ends and defensive tackles?



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Question #6:

For his work investigating a cholera outbreak in London, John Snow is credited with inventing what field of study which examines how diseases spread?



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Question #7:

What is the term for a basketball foul that doesn't involve contact between players?



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What is the term for a basketball foul that doesn't involve contact between players?



Question #8:

People are recommended to drink plenty of water after athletic activity to prevent what condition, the lack of sufficient fluids in the body?



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People are recommended to drink plenty of water after athletic activity to prevent what condition, the lack of sufficient fluids in the body?



Question #9:

What governing body of soccer organizes the World Cup?



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Question #10:

Some types of diabetics have to inject what substance that reduces blood sugar levels?



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Some types of diabetics have to inject what substance that reduces blood sugar levels?



Question #11:

Paradoxical undressing is a symptom of what condition in which a person's body temperature falls to unsafe levels?



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Paradoxical undressing is a symptom of what condition in which a person's body temperature falls to unsafe levels?



Question #12:

In what sport do the contestants use foils, epees, and sabers?



Question #12:

In what sport do the contestants use foils, epees, and sabers?



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for PE / Sports questions follow on next slide.

Advance once all answer sheets have been collected.

Group D Students may return to their team.

Group A Students may be seated.



Answers

- 1) Double Play
- 2) <u>Kidney</u>s
- 3) **Badminton**
- 4) Adrenaline
- 5) Linebacker
- 6) **Epidemiology**
- 7) Technical foul
- 8) **Dehydration**
- 9) <u>FIFA</u> [or <u>Fédération Internationale de Football</u> <u>Association</u>; or <u>International Federation of</u> Association Football]
- 10) Insulin
- 11) <u>Hypothermia</u>
- 12) Fencing



Group A Students are seated and ready to begin.



Question #1:

What university began as "teacher's training school" with groundbreaking in 1908? Governor Thomas Jordan Jarvis was known as the father of this university in Greenville.







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What university began as "teacher's training school" with groundbreaking in 1908? Governor Thomas Jordan Jarvis was known as the father of this university in Greenville.







Question #2:

Brevard College is a small liberal arts college located in what Transylvania County town?





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Brevard College is a small liberal arts college located in what Transylvania County town?





Question #3:

What Winston-Salem institution, home of the Fighting Pickles, is unique because it awards high school, undergraduate, and graduate degrees

to its students?





Question #3:

What Winston-Salem institution, home of the Fighting Pickles, is unique because it awards high school, undergraduate, and graduate degrees

to its students?





Question #4:

Concurrent with the announcement that the school would begin accepting men, Peace College changed its name to

what in 2012?





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Question #5:

What North Carolina public university opened its doors in 1795 as the first public university in the United States?





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What North Carolina public university opened its doors in 1795 as the first public university in the United States?





Question #6:

What North Carolina city is home to more than five colleges and universities including Bennett College and UNC-G?





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Question #7:

What Laurinburg institution was formed with the merger of Flora McDonald College and Presbyterian Junior College? It added its first graduate degree program in 2013.





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Question #8:

What Wayne County institution chartered in 1951 announced a name change from college to university in December, 2013?





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Question #9:

What purple and gold university led by David Belcher is located in Cullowhee?





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What purple and gold university led by David Belcher is located in Cullowhee?

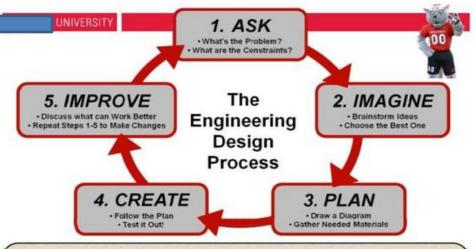




Question #10:

While more than a dozen NC universities offer engineering degrees, which is the largest with more students and over a

dozen majors?



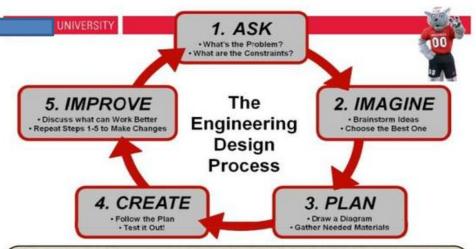
- The Engineering Design Process a series of steps that lead to the development of a new product or system.
- · You may start at ANY step of the process.
- After you improve your design once, you may want to begin the Engineering Design Process all over again to <u>refine your technology</u>. Or you may want to focus on <u>one</u> <u>step</u>.



Question #10:

While more than a dozen NC universities offer engineering degrees, which is the largest with more students and over a

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Question #11:

What Mecklenburg County university opened in 1946 was founded to serve the education needs of post-World War II veterans? It was known in the 1950's as

Charlotte College.



Question #11:

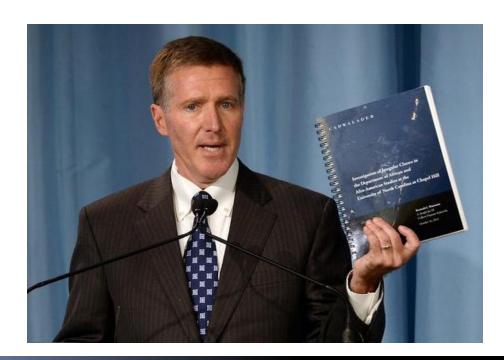
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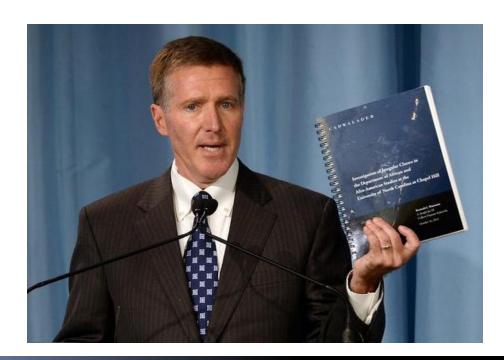
The Wainstein Report, published in October 2014, described academic fraud at what North Carolina university?





Question #12:

The Wainstein Report, published in October 2014, described academic fraud at what North Carolina university?





Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for NC Colleges and Universities questions follow on next slide.

Advance once all answer sheets have been collected.

Group A Students may return to their team.

Group B Students may be seated.



Answers

- 1) East Carolina University or ECU
- 2) Brevard
- 3) UNC School of the Arts
- 4) William Peace University
- 5) University of North Carolina or UNC
- 6) Greensboro
- 7) St. Andrews University
- 8) Mount Olive University or UMO
- 9) Western Carolina University or WCU
- 10) NC State University or NCSU
- 11) UNC-Charlotte
- 12) University of North Carolina or UNC



Group B Students are seated and ready to begin.



Question #1:

While lost with Becky Thatcher, the protagonist of what Mark Twain novel finds Injun Joe's gold?



Question #1:

While lost with Becky Thatcher, the protagonist of what Mark Twain novel finds Injun Joe's gold?



Question #2:

Holden Caulfield's angst-filled thoughts and experiences in New York City are the subject of what J.D. Salinger novel?



Question #2:

Holden Caulfield's angst-filled thoughts and experiences in New York City are the subject of what J.D. Salinger novel?



Question #3:

What English mariner who becomes a castaway is the namesake protagonist of Daniel Defoe novel?



Question #3:

What English mariner who becomes a castaway is the namesake protagonist of Daniel Defoe novel?



Question #4:

What novel about a friend of Sancho Panza who charges windmills was written by Miguel de Cervantes?



Question #4:

What novel about a friend of Sancho Panza who charges windmills was written by Miguel de Cervantes?



Question #5:

A Native American warrior named Little Bear who fought in the French and Indian War is the title figure of what novel? This novel's protagonist is Omri, who can bring toys to life using a magic key.



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A Native American warrior named Little Bear who fought in the French and Indian War is the title figure of what novel? This novel's protagonist is Omri, who can bring toys to life using a magic key.



Question #6:

What Danish author wrote "The Ugly Duckling" and "The Little Mermaid?"



Question #6:

What Danish author wrote "The Ugly Duckling" and "The Little Mermaid?"



Question #7:

Peeta Mellark reveals his feelings for the protagonist of what Suzanne Collins novel about Katniss Everdeen? It is the namesake of a series.



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Peeta Mellark reveals his feelings for the protagonist of what Suzanne Collins novel about Katniss Everdeen? It is the namesake of a series.



Question #8:

The destruction of a forest of Truffula Trees appears in *The Lorax*, a work by what author who created a character who eats cake in the bathtub and unleashes Thing 1 and Thing 2 in *The Cat in the Hat*?



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The destruction of a forest of Truffula Trees appears in *The Lorax*, a work by what author who created a character who eats cake in the bathtub and unleashes Thing 1 and Thing 2 in *The Cat in the Hat*?



Question #9:

The sequel to what work by Jeff Kinney was subtitled "Rodrick Rules?" This "novel in cartoons" centers on Greg Heffley and Rowley Jefferson and launched a series.



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The sequel to what work by Jeff Kinney was subtitled "Rodrick Rules?" This "novel in cartoons" centers on Greg Heffley and Rowley Jefferson and launched a series.



Question #10:

What father of Draco Malfoy is a prominent Death Eater in the Harry Potter series?



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What father of Draco Malfoy is a prominent Death Eater in the Harry Potter series?



Question #11:

What novel by Dan Brown features a conflict between the Priory of Sion and Opus Dei? It includes the character of Silas, an albino monk.



Question #11:

What novel by Dan Brown features a conflict between the Priory of Sion and Opus Dei? It includes the character of Silas, an albino monk.



Question #12:

What monkey created by Margret and H.A. Rey floats using a bunch of balloons before being rescued by the Man in the Yellow Hat? He is the protagonist of a namesake series.



Question #12:

What monkey created by Margret and H.A. Rey floats using a bunch of balloons before being rescued by the Man in the Yellow Hat? He is the protagonist of a namesake series.



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Literature questions follow on next slide.

Advance once all answer sheets have been collected.

Group B Students may return to their team.

Group C Students may be seated.



Answers

- 1) The Adventures of <u>Tom Sawyer</u>
- 2) The Catcher in the Rye
- 3) Robinson Crusoe [accept either]
- 4) Don Quixote
- 5) The Indian in the Cupboard
- 6) Hans Christian Andersen
- 7) The <u>Hunger Games</u>
- 8) <u>Dr. Seuss</u> or Theodore <u>Geisel</u> [accept Theo <u>LeSieg]</u>
- 9) Diary of a Wimpy Kid
- 10) <u>Lucius</u> Malfoy
- 11) The <u>Da Vinci Code</u>
- 12) Curious George



Group C Students are seated and ready to begin.



Question #1:

What scandal in which seven men were caught breaking into the Democratic headquarters in Washington, D.C. caused Richard Nixon's resignation?



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What scandal in which seven men were caught breaking into the Democratic headquarters in Washington, D.C. caused Richard Nixon's resignation?



Question #2:

What process ending in 1877 saw Northern troops occupy and helped restore the South after the Civil War?



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What process ending in 1877 saw Northern troops occupy and helped restore the South after the Civil War?



Question #3:

What politician and orator from Virginia exclaimed, "Give me liberty or give me death!"?



Question #3:

What politician and orator from Virginia exclaimed, "Give me liberty or give me death!"?



Question #4:

The US war in the Pacific in World War II began with what Japanese attack on this Hawaiian naval base?



Question #4:

The US war in the Pacific in World War II began with what Japanese attack on this Hawaiian naval base?



Question #5:

Abraham Lincoln delivered a famous address dedicating a national cemetery at the site of what battle that saw fighting at Little Round Top and Devil's Den?



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Abraham Lincoln delivered a famous address dedicating a national cemetery at the site of what battle that saw fighting at Little Round Top and Devil's Den?



Question #6:

Franklin Delano Roosevelt implemented what expansive set of policies to help end the Great Depression? Its second phase gave rise to such developments as the Social Security Act.



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Question #7:

What settlement in the Virginia Colony was the first permanent English settlement in the United States?



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Question #8:

George H.W. Bush's tenure saw what war in which a coalition of nations attacked Iraq after Saddam Hussein ordered the invasion of Kuwait?



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Question #9:

Elizabeth Cady Stanton and Susan B. Anthony drafted what amendment which gave women in the US the right to vote?



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Question #10:

The Bull Moose Party was led by what president who, during the Spanish American War, led the Rough Riders up San Juan Hill?



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The Bull Moose Party was led by what president who, during the Spanish American War, led the Rough Riders up San Juan Hill?



Question #11:

Plymouth Plantation eventually became part of which of the Thirteen Colonies?



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Question #12:

The Lewis and Clark expedition and Louisiana Purchase occurred during the presidency of what man who was also the first US Secretary of State?



Question #12:

The Lewis and Clark expedition and Louisiana Purchase occurred during the presidency of what man who was also the first US Secretary of State?



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for US History questions follow on next slide.

Advance once all answer sheets have been collected.

Group C Students may return to their team.

Group D Students may be seated.



Answers

- 1) Watergate Scandal
- 2) Reconstruction
- 3) Patrick Henry
- 4) Pearl Harbor
- 5) Battle of Gettysburg
- 6) New Deal
- 7) Jamestown
- 8) Persian Gulf War [or Operation Desert Storm]
- 9) Nineteenth Amendment
- 10)Theodore Roosevelt [or "Teddy" Roosevelt, or TR]
- 11) Massachusetts
- 12) Thomas <u>Jefferson</u>



Group D Students are seated and ready to begin.

Proctor should now distribute math questions face-down to students.

Students may begin when next slide is advanced.



Question #1: What is the sine of 90 degrees?



Question #2:

Richard mails off some equipment to be repaired, thinking the repairs will cost \$200. In reality, the price of the repairs has increased by 20% since last time, but Richard also has a coupon which will take 10% off of the final price of the repairs. How much will the equipment actually cost to repair?



Question #3:

What is the area of a triangle with a base of 6 units and a height of 12 units?



Question #4:

What is the probability of flipping five heads in a row on a fair coin? You can give the answer as either a fraction or decimal; if the latter, you can give it to just 3 decimal places.



Question #5:

If x is 9 in the equation y = x + 11, then what is the value of y?



Question #6:

Jenny is 5 feet tall and looks up at a precise 45 degree angle to the top of a building. If she is standing 10 feet away from the building, how tall is the building? Don't forget to take Jenny's height into account in finding the answer.



Question #7:

What is the circumference of a circle whose radius is 14 units?



Question #8:

What is the slope of a line that passes through the points (0, 3) and (5, 8)?



Question #9:

What is the positive square root of 196?



Question #10:

Keisha is designing a building shaped like a circle when she is told that the building's floor area will have to be quadrupled. Assuming the building stays in the same shape and the original building was 180 feet wide, how wide in feet will the new building be?



Question #11:

What are the two values of x for which the equation $x^2 + 5x + 6$ can be true?



Question #12:

What is the surface area of a rectangular prism whose side lengths are 5, 8, and 2 units?



Students have 5 minutes to complete their answer sheets.



Students have 5 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 5 minutes to complete their answer sheets.

1 Minute Remaining



Students have 5 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Mathematics questions follow on next slide.

Advance once all answer sheets have been collected.

Group D Students may return to their team.

Group A Students may be seated.



Answers

- 1) <u>1</u>
- 2) \$216.00
- 3) 36 square units
- 4) <u>1/32</u> [or 0<u>.031</u>25]
- **5) 20**
- 6) 15 feet
- 7) $28 \pi \text{ units}$
- 8) <u>1</u>
- 9) 14
- 10) 360 feet
- 11) -3 and -2 [accept in either order]
- **12) 132 square units**



Group A Students are seated and ready to begin.



Question #1:

What TV network best known for airing SpongeBob SquarePants also aired Avatar: The Last Airbender?



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What TV network best known for airing SpongeBob SquarePants also aired Avatar: The Last Airbender?



Question #2:

Weird Al Yankovic recorded a parody of what band's song "Taxman" as "Pac Man?" This band also produced such hits as "I Want to Hold Your Hand," "Abbey Road," and "Yellow Submarine."



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Question #3:

What actor played the title figure in the film *Saving Private Ryan*, as well as the title character in the *Bourne* trilogy?



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What actor played the title figure in the film *Saving Private Ryan*, as well as the title character in the *Bourne* trilogy?



Question #4:

Music of the Sun was the first album of what Barbadian artist who sings "Disturbia" and "Umbrella?"



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Music of the Sun was the first album of what Barbadian artist who sings "Disturbia" and "Umbrella?"



Question #5:

Elsa is the sister of what protagonist of *Frozen* who is wooed by Prince Hans?.



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Question #6:

What misanthropic diagnostician at Princeton Plainsboro Teaching hospital is the namesake of a TV show? He frequently appears with a cane.



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What misanthropic diagnostician at Princeton Plainsboro Teaching hospital is the namesake of a TV show? He frequently appears with a cane.



Question #7:

What political office has been held on TV by characters including Jed Bartlet, David Palmer, Allison Taylor, and MacKenzie Allen?



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Question #8:

What famous director directed 2001: A Space Odyssey and Dr. Strangelove?



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What famous director directed 2001: A Space Odyssey and Dr. Strangelove?



Question #9:

Alex O'Loughlin plays Steve McGarrett, whose partner is Danny Williams, on the new version of what CBS television series about an elite state police force based in Honolulu?



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Alex O'Loughlin plays Steve McGarrett, whose partner is Danny Williams, on the new version of what CBS television series about an elite state police force based in Honolulu?



Question #10:

The song "Radio GaGa" was performed by what group fronted by Freddie Mercury which produced "Another One Bites the Dust?"



Question #10:

The song "Radio GaGa" was performed by what group fronted by Freddie Mercury which produced "Another One Bites the Dust?"



Question #11:

The Terrans, Zerg, and Protoss are the factions of what series of games developed by Blizzard? Its second installment, *Wings of Liberty*, was released in July 2010 and a sequel titled *Heart of the Swarm* was released in March 2013.



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Question #12:

What comic strip about the title engineer in a white-collar, micromanaged workplace is written and drawn by Scott Adams?



Question #12:

What comic strip about the title engineer in a white-collar, micromanaged workplace is written and drawn by Scott Adams?



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Arts / Media questions follow on next slide.

Advance once all answer sheets have been collected.

Group A Students may return to their team.

Group B Students may be seated.



Answers

- 1) Nickelodeon
- 2) The Beatles
- 3) Matthew Paige "Matt" <u>Damon</u>
- 4) Rihanna [accept Robyn Rihanna Fenty]
- 5) <u>Anna</u>
- 6) Gregory <u>House</u>, M.D.
- 7) President of the United States [accept POTUS]
- 8) Stanley Kubrick
- 9) Hawaii Five-O (five-"oh")
- 10) Queen
- 11) StarCraft
- 12) <u>Dilbert</u>



Group B Students are seated and ready to begin.



Question #1:

What type of rock formed from magma is often contrasted with sedimentary and metamorphic rocks?



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What type of rock formed from magma is often contrasted with sedimentary and metamorphic rocks?



Question #2:

Pterosaurs and stegosaurs flourished in what period that followed the Triassic? Name this second period of the Mesozoic Era which was followed by the Cretaceous.



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Pterosaurs and stegosaurs flourished in what period that followed the Triassic? Name this second period of the Mesozoic Era which was followed by the Cretaceous.



Question #3:

What type of storm which ranges in strength from F0 and F5 on the Fujita scale is characterized by a funnel-shaped cloud?



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What type of storm which ranges in strength from F0 and F5 on the Fujita scale is characterized by a funnel-shaped cloud?



Question #4:

Supernovae form what interstellar clouds that are the birthplace of stars?



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Question #5:

Imbrium and Tranquillititis are two of the "seas" of what body tidally locked with the Earth? This body causes the tides.



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Imbrium and Tranquillititis are two of the "seas" of what body tidally locked with the Earth? This body causes the tides.



Question #6:

What layer of the Earth's atmosphere home to the ozone layer is where jet planes fly?



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What layer of the Earth's atmosphere home to the ozone layer is where jet planes fly?



Question #7:

A byproduct of the extraction of oil is what gas with formula NH₃ which makes up most of natural gas?



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A byproduct of the extraction of oil is what gas with formula NH₃ which makes up most of natural gas?



Question #8:

What cold biome is separated from the taiga by the tree line? Only small shrubs and lichen grow in this biome where there is permafrost.



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What cold biome is separated from the taiga by the tree line? Only small shrubs and lichen grow in this biome where there is permafrost.



Question #9:

The moons Deimos and Phobos orbit what planet which has been visited by the Spirit, Opportunity, and Curiosity rovers? This fourth planet from the Sun is home to the volcano Olympus Mons.



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The moons Deimos and Phobos orbit what planet which has been visited by the Spirit, Opportunity, and Curiosity rovers? This fourth planet from the Sun is home to the volcano Olympus Mons.



Question #10:

What is the term for the velocity needed to overcome the gravitational pull of a body?



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Question #11:

What hard substance with a Mohs hardness number of 10 is a gem often used in wedding rings?



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Question #12: What device measures atmospheric pressure?



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Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Earth Science questions follow on next slide.

Advance once all answer sheets have been collected.

Group B Students may return to their team.

Group C Students may be seated.



Answers

- 1) <u>Igneous</u> rocks
- 2) Jurassic period
- 3) Tornadoes
- 4) Nebula
- 5) The Moon [or Luna]
- 6) Stratosphere
- 7) Methane
- 8) Tundra
- 9) <u>Mars</u>
- 10) Escape Velocity
- 11) Diamond
- 12) Barometer



Group C Students are seated and ready to begin.



Question #1:

Wayne Goodwin is the North Carolina Commissioner of what, responsible for regulating and licensing insurance professionals in NC?





Question #1:

Wayne Goodwin is the North Carolina Commissioner of what, responsible for regulating and licensing insurance professionals in NC?





Question #2:

The group of popularly elected executive offices in North Carolina is known as the Council of what? This group of ten leaders has regular meetings and is chaired by the Governor.



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The group of popularly elected executive offices in North Carolina is known as the Council of what? This group of ten leaders has regular meetings and is chaired by the Governor.



Question #3:

Who is the Commissioner of Labor, the first NC woman ever elected to this position. She was first elected in 2000.





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Who is the Commissioner of Labor, the first NC woman ever elected to this position. She was first elected in 2000.





Question #4:

North Carolina state senators and representatives serve terms of what length?



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Question #5:

What elected official presides over the NC Senate but only votes in case of a tie?



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What elected official presides over the NC Senate but only votes in case of a tie?



Question #6:

While officially nonpartisan, elections to this state body have become decidedly partisan with millions of out-of-state dollars flowing into races. Sam **Ervin IV** was recently elected to serve in what body?





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Question #7:

What state agency was moved in August 2014 from the Department of Justice under the control of the Attorney General to the Department of Public Safety under Governor McCrory? They assist local law enforcement with criminal investigations.



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What state agency was moved in August 2014 from the Department of Justice under the control of the Attorney General to the Department of Public Safety under Governor McCrory? They assist local law enforcement with criminal investigations.



Question #8:

The NC Legislature recently changed the law allowing them to hire private attorneys to defend state laws. What state-level position is elected to defend state laws, agencies, and commissions?



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The NC Legislature recently changed the law allowing them to hire private attorneys to defend state laws. What state-level position is elected to defend state laws, agencies, and commissions?



Question #9:

A PAC is a type of organization that pools campaign contributions in order to influence campaigns, candidates, or elections. PAC's have been hugely influential in recent NC elections. PAC is an acronym for what?



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Question #10:

North Carolina's US Senate race was the most expensive in the country. This race featured which two US Senate candidates from the major parties?



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Question #11:

In the North Carolina General Assembly, which political party now enjoys a supermajority, allowing them to override any bill vetoed by Governor McCrory?



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In the North Carolina General Assembly, which political party now enjoys a supermajority, allowing them to override any bill vetoed by Governor McCrory?



Question #12:

In the recent election North Carolina voters approved a change to the state constitution. This change allows defendants in felony cases to waive their right to what kind of trial and have their case decided by a judge?



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Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Wildcard questions follow on next slide.

Advance once all answer sheets have been collected.

Group C Students may return to their team.

Group D Students may be seated.



Answers

- 1) <u>Insurance</u>
- 2) Council of State
- 3) Cherie Berry
- 4) **2 years**
- 5) Lieutenant Governor
- 6) State <u>Supreme Court</u>
- 7) SBI or State Bureau of Investigations
- 8) Attorney General
- 9) Political Action Committee
- 10) Thom <u>Tillis</u>, Kay <u>Hagan</u>
- 11) Republicans
- 12) <u>jury</u>



Group D Students are seated and ready to begin.



Question #1:

What process reorganizes the information on a hard drive into contiguous areas, rather than allowing the information to be scattered?



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What process reorganizes the information on a hard drive into contiguous areas, rather than allowing the information to be scattered?



Question #2:

The Bessemer process was once used to create what substance made up of iron alloyed with carbon that is used in construction?



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The Bessemer process was once used to create what substance made up of iron alloyed with carbon that is used in construction?



Question #3:

What type of computer software responds to the requests of clients on a computer network? This term also describes computers dedicated to responding to clients on a network.



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Question #4:

Intel and AMD are major manufacturers of what computer component that carries out a computer's basic operations, such as arithmetic and input/output operations?



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Question #5:

What devices transfer electrical power from one circuit to another, changing the voltage along the way?



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Question #6:

What term refers to a type of computing in which data storage, applications, and other resources are shared on the Internet? It is named for a commonly used way of portraying this type of computing.



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Question #7:

What video sharing website owned by Google is the third most popular site in the world?



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Question #8:

What field of engineering focuses on the design and construction of machine systems and tools?



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Question #9:

What Microsoft search engine powers searches on Yahoo.com and is the second most popular search engine in the United States?



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Question #10:

What business initially created as part of eBay allows online money transfers? Most shoppers on eBay use this site to make their purchases.



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Question #11:

In 2005, Google purchased the developer of what most popular smartphone operating system in the world?



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Question #12:

Ethylene glycol is often used in what substance used to keep the coolant of cars from solidifying in cold temperatures?



Question #12:

Ethylene glycol is often used in what substance used to keep the coolant of cars from solidifying in cold temperatures?



Students have 3 minutes to complete their answer sheets.



Students have 3 minutes to complete their answer sheets.

2 Minutes Remaining



Students have 3 minutes to complete their answer sheets.

1 Minute Remaining



Students have 3 minutes to complete their answer sheets.

12 Seconds Remaining



TIME

Pencils Down.

Answer sheets will now be collected.



Answers for Technology questions follow on next slide.

Advance once all answer sheets have been collected.

Group D Students may return to their team.



Answers

- 1) **Defragmentation**
- 2) Steel
- 3) Server
- 4) CPU [or Central Procession Unit]
- 5) Transformers
- 6) Cloud Computing
- 7) Youtube
- 8) Mechanical Engineering
- 9) <u>Bing</u>
- 10) Paypal.com
- 11) Google Android
- 12) Antifreeze



End of Session

Scores will be posted as soon as they are ready.

