

CHARTER CHALLENGE 4 (JAN 2008)  
ROUND 3

**1st and 3rd periods.** In these periods, your team will choose a category and be read ten questions for you to complete in ninety seconds. After each response, the moderator will indicate whether or not it was correct.

Bonus Category: FRACTIONS

Please give all of these answers as fractions in lowest terms:

1. It is the probability of flipping heads with a fair coin.

answer:  $\frac{1}{2}$

2. What fraction of one foot is one inch?

answer:  $\frac{1}{12}$

3. To the nearest tenth, what fraction of the earth is covered by water?

answer:  $\frac{7}{10}$

4. It is the number of beats a dotted eighth note gets in common four-four time.

answer:  $\frac{3}{4}$  beat

5. Convert the repeating decimal 0.777 into a fraction.

answer:  $\frac{7}{9}$

6. Reduce the fraction 9 over 21 into lowest terms.

answer:  $\frac{3}{7}$

7. What fraction of a millennium is a decade?

answer:  $\frac{1}{100}$

8. In a standard deck of 52 cards, what fraction of the cards are in the clubs suit?

answer:  $\frac{1}{4}$

9. Originally in the Constitution, representation in Congress was based on what fraction of slaves?

answer:  $\frac{3}{5}$

10. What is  $\frac{2}{7}$  plus  $\frac{3}{14}$ ?

answer:  $\frac{1}{2}$

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Bonus Category: ART TERMS

1. What kind of work is made by gluing materials such as paper scraps, photographs, and cloth onto paper?

answer: collage

2. What describes both a camera part that concentrates light or eyeglasses that help you focus?

answer: lens

3. In this type of sculpture, parts are moved by air currents. It may hang from the ceiling.

answer: mobile

4. What tightly woven cloth is the surface artists paint on, or can refer to the painting itself?

answer: canvas

5. Chinese characters can be drawn using what specialized writing using thick and thin lines?

answer: calligraphy

6. What term refers to both a surface, possibly a small board, in which a painter will mix his colors, or the range of colors used by an artist?

answer: palette

7. What is a large wall painting, such as on the side of a building?

answer: mural

8. What objects are made of clay hardened by firing?

answer: ceramic(s) or pottery

9. What light colors produced by powdered pigments are commonly used on Easter decorations?

answer: pastel(s)

10. Vicent Van Gogh painted a swirling sky in the painting called [BLANK] night.

answer: Starry Night

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Bonus Category: ASTRONOMY

1. The constellations Ursa Major and Minor are also called the Big and Little what?

answer: Dipper or Bear

2. What body near Charon was demoted to the dwarf planet in 2006?

answer: Pluto

3. Polaris is also known by what name, indicating its position above ninety degrees latitude?

answer: the North Star

4. What comes between the Sun and Earth during a solar eclipse?

answer: the Moon

5. Phobos and Deimos are moons of what planet named after the Roman god of war?

answer: Neptune

6. The corona, photosphere, and chromosphere are parts of what body?

answer: the Sun

7. What term describes Sirius and other systems in which two stars revolve around each other?

answer: binary

8. What describes the streams of dust and gas of a comet that always point away from the solar wind?

answer: tail

9. Venus' atmosphere is primarily composed of what gas which is causing a greenhouse effect?

answer: carbon dioxide or CO<sub>2</sub>

10. Aldebaran and Taurus are cooler giant stars that appear to be what color?

answer: red

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Bonus Category: GEOGRAPHY GLOSSARY

1. What line is located at zero degrees latitude?

answer: the Equator

2. What substance could you obtain from an aquifer?

answer: water

3. Florida is an example of what kind of landmass surrounded by water on three sides?

answer: peninsula

4. What kind of deep valleys are carved by rivers, such as a Grand one by the Colorado River?

answer: canyon

5. What describes a stream or river that flows into a larger river?

answer: tributary

6. This term means a large group of islands in a body of water.

answer: archipelago

7. What is a spot in the desert where underground water allows trees to grow?

answer: oasis

8. In the Pacific, the Bikini is an example of what kind of coral ring around an island?

answer: atoll

9. Panama is sometimes described as what kind of small connection between two large landmasses?

answer: isthmus

10. Of north, south, east, and west, which two hemispheres include the United States?

answer: north and west

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Bonus Category: THE MYSTERY CATEGORY

All of the answers in this category are related. Solve the mystery and you'll know the answer to number ten.

1. What Philadelphia University has the Owl as its mascot, counts Bill Cosby among its alumni, and has a name suggesting a Hindu church?

answer: Temple University

2. In the bible, what box contained the original Ten Commandments and was adorned by angels?

answer: the Ark of the Covenant

3. In mythology, what was the Medusa's hair made up of?

answer: snakes

4. What leader, along with his wife Eva Braun, committed suicide as Germany lost World War II?

answer: Adolf Hitler

5. In a Monty Python film, King Arthur searches for what relic taken to Britain by Joseph of Arimathea?

answer: the Holy Grail

6. This is the scientific study of past human life and culture by the examination of physical remains, such as graves, tools, and pottery.

answer: archeology

7. What actor starred in *Air Force One*, *Firewall*, and *Patriot Games*?

answer: Harrison Ford

8. The last of these efforts to capture Jerusalem was the ninth in 1271.

answer: the Crusades

9. Carmen Sandiego wears a red version of what soft felt hat that derives its name from a play by Victorien Sardou?

answer: Fedora

10. What character has been portrayed by River Phoenix, Sean Patrick Flanery, and George Hall?

answer: Professor Henry "Indiana" Jones (accept either)

[River was a young Indiana in the third film the others appeared in a 1990's TV show, *The Young Indiana Jones Chronicles*]

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**2nd period:** This period contains twenty tossups worth 10 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

**TOSSUPS:**

1. He attempts to split his personality into good and evil parts, but this doctor soon finds himself slipping into evil uncontrollably. Who is this character by Robert Louis Stevenson, the alter-ego of Mr. Hyde?

answer: Doctor Henry Jekyll (and Mr. Hyde) (accept either underlined name)

2. It contains either four or eight gigabytes of memory and the OneTrip program was written for it before it was even available. What is this product that allows web browsing and text messaging released by Apple in Summer 2007?

answer: iPhone

3. Correct the grammar mistake in this sentence: Lizzy is the one that likes chocolate.

answer: Lizzy is the one who likes chocolate

4. Over the years, versions of this cereal have been called Marshmallow Mania, Fiesta, Bronto Bright, and Dino. What is this cereal that Barney is always stealing from Fred Flintstone, coming in cocoa and fruity kinds?

answer: Pebbles (accept: Fruity or Cocoa Pebbles)

5. What are classified as noctilucent, cirrus, stratus, and cumulus, the last of which may produce brief showers?

answer: cloud(s)

6. Intersections, Detours, Fast Forwards, Yields, U-Turns, and Roadblocks are some of the challenges teams face on this show. Name this CBS reality show hosted by Phil Keoghan where teams travel the world.

answer: The Amazing Race

7. At the 1908 Olympics, King Edward VII was supposed to start this event, but his doctors advised him to stay inside due to a cold. To allow the king to start the race, they moved the start 385 yards towards his castle. What is this running race that today is often 26 miles and 385 yards?

answer: the Marathon

8. *A Series of Unfortunate Events: The End* was what number in the series?

answer: 13 or Book the Thirteenth

9. In 1898, the United States entered into a war with what country, from which it won the Philippines and Puerto Rico?

answer: Spain

10. If you were to draw the plus sign, how many right angles would be in your drawing?

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answer: 4

11. What leader conquered Gaul in 51 A.D. and won the civil war between his army and Pompey's, but was later assassinated in the Roman Senate?

answer: Julius Caesar

12. What name is collectively given to Columbia, Brown, Dartmouth, Yale, Cornell, and others, a set of schools with high academic standards, said to have a plant growing up the sides of their buildings?

answer: Ivy League

13. Adherents pay the zakat tax, profess there is one God, fast during Ramadan, pray five times daily facing Mecca, and pilgrimage to Mecca. These are the five pillars of what Middle Eastern faith?

answer: Islam or the Muslim faith

14. What successor of Colin Powell was a leader at Stanford University before she became Secretary of State?

answer: Condoleezza "Condi" Rice

15. Checkpoint Charlie was a place that people could cross between the East and West sides of what German city formerly divided by a wall?

answer: Berlin

16. Designed by Gutzon Borglum and located in the Black Hills, what sculpture depicts Theodore Roosevelt, Thomas Jefferson, Abraham Lincoln, and George Washington?

answer: Mount Rushmore

17. Pencil and paper ready. What is the sum of the counting numbers one through ten? That is to say, what is 1 plus 2 plus 3, all the way up to ten?

answer: 55 [a trick here is to realize there are five pairs of eleven]

18. What dust-size particles produced by male parts of a flower are carried by bees and the wind to fertilize plants?

answer: pollen grains

19. The Old form of this language was spoken in southern Scotland in the fifth century and borrowed many elements from Norse. The Middle form started around the time of the Norman invasion and was standardized by King Henry V. What is this language whose modern form is being used right now?

answer: English

20. Originally invented by South American Indians, they are made from gourds and usually played in pairs. What are these rattles filled with seeds used as a musical instrument?

answer: maraca(s)

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**4th period:** This period contains twenty tossups worth 15 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

**TOSSUPS:**

1. What term describes the criminal practice of using false spam emails and websites to obtain personal information, which sounds like an angling activity done around water?

answer: phishing

2. With a Spanish name meaning "Holy Faith", it was established as part of the Mexican colony in 1515. What is this capital of New Mexico?

answer: Santa Fe

3. The "Connecticut" one of 1787 dealt with representation in the government. The "Missouri" one of 1820 allowed Maine to become a state. By what title are these agreements known, in which northern and southern states each received something they approved of?

answer: compromise

4. *The Children of Hurin* was compiled by his son Christopher. Who is this author of *Lord of the Rings*?

answer: J. R. R. Tolkien

5. What 2006 film named for a Mediterranean vegetable stew is set in the Paris restaurant of Gusteau's and is about the help Linguini gets while cooking from a rodent?

answer: Ratatouille [rat-a-TOO-ey]

6. Often heard around December, what does the Spanish phrase *Feliz Navidad* mean?

answer: Happy (or Merry) Christmas

7. The helix made from an S with three lines resembles a strand of RNA and is one of the recurring themes of this show along with scars and eclipses. Characters include Micah and Nikki Sanders and Noah and Claire Bennet. What is this NBC show about people who discover they have powers?

answer: Heroes

8. Using carbon dioxide, water, and sunlight to form carbohydrates, what green pigments found in plants are the site of photosynthesis?

answer: chlorophyll (accept: photosynthesis before "green")

9. Who had thirteen children, ten of whom founded tribes, and was the younger brother of Esau in the bible?

answer: Jacob

10. Pencil and paper ready. Christine can learn 6 violin pieces in 8 hours. At the same rate, how many pieces could she learn in 20 hours?



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answer: 15 pieces [she learns  $\frac{3}{4}$  piece per hour]

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11. What word describes pronouns such as "I", "he", "they", and "we", that go in the part of the sentence that is not the predicate?

answer: subject pronouns

12. The Romans called it Leutetia, which was built on the Left Bank Saint Genvieve Hill, and the island in the middle of the Seine. What is this French city called the "City of Lights"?

answer: Paris

13. Rajiv was Prime Minister of India from 1984 to 1989. Indira was assassinated by her Sikh [SEEK] bodyguards. What surname do these leaders share with the pacifist Mahatma?

answer: Gandhi

14. How many sides does a dodecagon have?

answer: 12

15. Originally it was known as Armistice Day to commemorate the end of World War I, which is the name still used in France. The British call it Remembrance Day. What is this November observance honoring those who serve in the Armed Forces?

answer: Veterans Day (accept November 11)

16. An encaustic is a painting that uses what substance found in beehives and candles?

answer: wax

17. What Seattle Mariner had the highest American League batting average in 2001 and 2004, which occurred after he left the Orix Blue Wave in Japan's Pacific League?

answer: Ichiro Suzuki

18. The Mercalli intensity scale measures the effects on the Earth's surface of one of these, and hence measures its damage. An aftershock is a smaller version of what kind of catastrophe measured by the Richter Scale in which the ground shakes?

answer: earthquake

19. His account says that he was "first a surgeon, and then a Captain of several ships". His travels into several remote nations of the world began when he shipwrecked on the island of Liliput. Who is this creation of Jonathan Swift?

answer: Lemuel Gulliver (accept either)

20. His Greek equivalent is Eros, and he may have been the son of Mars and Venus. He appears in Virgil's *Aeneid* changed into the shape of Ascanius to inspire Dido's love. Who is this excellent archer, said to be able to inspire romance?

answer: Cupid

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