

ASCA Junior Varsity Set Sample Round

Period One—Ten tossups, Ten 2-part bonuses

1. One version of this language is Navarrese. Its official version is Basque and its native name is Euskara, and it is the last non Indo-European language in Europe. For 10 points, name this language spoken in its namesake region of northern Spain and southern France by a namesake minority.

ANSWER: **Basque** [accept either or both of **Euskara** **Basque** before mentioned]

His *Serenade No. 13* is more commonly called *A Little Night Music*. For 10 points each:

[10] Name this Austrian composer who died while composing his *Requiem Mass in D Minor* and had an apocryphal feud with Salieri.

ANSWER: Wolfgang Amadeus **Mozart**

[10] In this Mozart opera, the Queen of the Night gives Tamino the title instrument, the tune of which can change men's hearts.

ANSWER: *The **Magic Flute***

2. This artist sculpted what appears to be a large baboon in Chicago's Daley Plaza. Responsible for *Saltimbanques* and *The Absinthe Drinker*, he painted *The Old Guitarrist* during his Blue Period. For 10 points, name this Spanish painter of the cubist *Les Femmes d'Alger* and *Guernica*.

ANSWER: Pablo **Picasso**

The Blue Ridge mountains run along this state's western borders. For 10 points each:

[10] Name this eastern state with capital at Richmond, officially designated a Commonwealth.

ANSWER: Commonwealth of **Virginia**

[10] The Eastern Shore of Virginia is separated from the rest of the state by this Bay fed by the Susquehanna River. This bay is America's largest estuary.

ANSWER: **Chesapeake** Bay

3. Followers of this faith enter temples through *torii*, and its first written record is the *Kojiki*. Its name means "Way of the Gods," and those gods are the *kami* like Amaterasu, who is said to be the ancestor of Hirohito and all other emperors. For 10 points each, name this indigenous religion of Japan.

ANSWER: **Shinto**

It states that the languages people use affect the way they think about things. For 10 points each:

[10] Name this theory also known as linguistic relativity, named after the American linguists who formulated it.

ANSWER: **Sapir-Whorf** hypothesis

[10] The Sapir-Whorf Hypothesis supposedly describes why this Native American group has a lot of words for snow.

ANSWER: **Eskimos** [or **Inuits** or **Aleuts**]

4. Dustin Moskovitz helped found this site which was based on a site named Hot or Not. It launched a Marketplace in 2007 and takes its name from a name for college yearbooks. For 10 points, name this social networking site designed by Mark Zuckerberg that lets people over 13 poke friends and tag photos.

ANSWER: **Facebook**.com

It is home to the Pripet Marshes and Berezina River. For 10 points each:

[10] Name this former Soviet republic with capital at Minsk.

ANSWER: **Belarus**

[10] Near Belarus lies this other former Soviet republic with capital at Tallinn.

ANSWER: **Estonia**

5. The partial version of this type of reaction occurs to fuel the production of syngas for use in a fuel cell. Carbon undergoes this process to produce carbon dioxide. This type of reaction sees namesake agents serve as electron acceptors that takes electrons from an electron donor. For 10 points, name this counterpart to reduction.

ANSWER: **Oxidation**

Rutherford used these particles in his gold foil experiment. For 10 points each:

[10] Name this kind of particle with atomic number 4 and charge of positive 2.

ANSWER: **alpha** particle

[10] Alpha particles are equivalent to the nucleus of this element with symbol He.

ANSWER: **Helium**

6. Gustave de Ponton d'Amécourt coined the term for this type of device. Paul Cornu first successfully operated a piloted one, while Igor Sikorsky's namesake company builds them. Military versions of this craft include the Mi-24 and Apache. For 10 points, name this type of aircraft lifted by horizontal rotors.

ANSWER: **helicopter**

This philosopher's most famous statement comes from a work that examines the possibility of all existence being the illusion of an evil demon. For 10 points each:

[10] Name this author of *Meditations on First Philosophy*, who said "Cogito Ergo Sum"

ANSWER: Rene **Descartes**

[10] This other philosopher argued for direct democracy in *The Social Contract*.

ANSWER: Jean-Jaques **Rousseau**

7. This goddess created the Milky Way when she pulled a nursing infant from her breast. This goddess turned Lamia into a monster, cursed Echo to only be able to repeat others' words, and sent a gadfly to chase Io to Egypt. This goddess mothered Hephaestus and was associated with the peacock. For 10 points, name this head Greek goddess, the wife of Zeus.

ANSWER: **Hera**

The plaintiffs in the case were thirteen families from Topeka, Kansas. For 10 points each:

[10] Name this 1954 Supreme Court Case argued by Thurgood Marshall that desegregated America's public school system.

ANSWER: *Oliver **Brown** et al. v. **Board** of Education of Topeka et al.* [either "Brown" or "Board" is sufficient]

[10] *Brown v. Board of Education* effectively overturned this 1896 Supreme Court decision that declared "separate but equal" facilities to be constitutional.

ANSWER: *Homer A. **Plessy** v. **Ferguson*** [either "Plessy" or "Ferguson" is sufficient]

8. This river begins at Lake Itasca, while its widest point is at Lake Winnibigoshish near Grand Rapids. At one point, it was named the Colbert River, and it was explored by Joliet and Marquette. This river's tributaries include the Red, Tennessee, and Illinois Rivers. For 10 points, name this river also known as the "Big Muddy," the longest in the United States.

ANSWER: **Mississippi** River

It's more massive than the other planets put together. For 10 points each:

[10] Name this largest planet in the Solar System.

ANSWER: **Jupiter**

[10] This moon of Jupiter is known for its volcanoes that shoot molten sulfur.

ANSWER: **Io**

9. This organ is attached to the body wall by the falciform ligament. Diseases of this organ cause a rise in bilirubin, thus resulting in jaundice, though it is the only organ which can regenerate. This organ is divided into four lobes and is the largest human organ. For 10 points, name this organ which detoxifies the body.

ANSWER: **Liver**

Answer these questions about languages spoken in France, for 10 points each:

[10] This mutually unintelligible dialect of French is spoken in the province of Brittany.

ANSWER: **Breton**

[10] This language is spoken by the many Algerian immigrants in France, as well as in cities such as Riyadh (REE-yahd) and Damascus.

ANSWER: **Arabic**

10. This city was the site of the first transplanted rubber trees in its Kew Gardens. Its Crystal Palace was the site of the Great Exhibition of 1851, and it is the site of St. Paul's Cathedral and 10 Downing Street. For 10 points, name the site of the 2012 Olympics, the capital of England.

ANSWER: **London**

In the first version of this game, you can play as the Master Chief, while you're an ODST in the third version. For 10 points each:

[10] Name this science fiction shooter series created by Bungie Studios.

ANSWER: **Halo**

[10] In *Halo*, you battle against this conglomerate of species which includes the Elites and Brutes.

ANSWER: **Covenant**

Period Two—Worksheet (Team One)

Answer these questions, the answers to which all begin with the letter “R.”

1)	European river that forms part of the border of Germany and France; also the longest river in Germany.
2)	Ritual signaling a child's transition to adulthood, such as the Bar Mitzvah and Confirmation.
3)	Type of computer memory that stores instructions and files for immediate processing.
4)	Ability of a telescope or camera to see small details.
5)	A question posed purely for effect.
6)	Set of behaviors, rights, and obligations that define a person's place in society.
7)	Letters used by Vikings for sagas.
8)	Composer of <i>Ring Cycle</i> and “Here Comes the Bride.” (The answer does not have to include the letter “R”)
9)	Sculptor of <i>The Thinker</i> as part of his <i>The Gates of Hell</i> .
10)	Novel by Daphne du Maurier about the second Lady De Winter, who broods over her predecessor, the title figure.
11)	Former Chief of Staff to President Obama who was elected Mayor of Chicago in 2011. (The answer does not have to include the letter “R”)
12)	Former Massachusetts governor, who, as of July 2011, is considered the frontrunner for the 2012 Republican Presidential nomination.
13)	Transcendentalist and mentor of Henry David Thoreau; author of <i>Self-Reliance</i> . (The answer does not have to include the letter “R”)
14)	Friend of Charlemagne who dies in namesake epic poem.
15)	Eastern European nation led by dictator Nicolae Ceaucescu until overthrow of Communism in 1989.
16)	US president who promoted supply-side economics.
17)	Tallest volcano in Washington state.
18)	Organelle that is the site of protein production.
19)	Variation of the Doppler Effect in objects moving away from the viewer.
20)	US state founded by Roger Williams and Anne Hutchinson.

Period Two—Worksheet (Team Two)

Answer these questions, the answers to which all begin with the letter “R.”

1)	European river that forms part of the border of Germany and France; also the longest river in Germany.
2)	Ritual signaling a child's transition to adulthood, such as the Bar Mitzvah and Confirmation.
3)	Type of computer memory that stores instructions and files for immediate processing.
4)	Ability of a telescope or camera to see small details.
5)	A question posed purely for effect.
6)	Set of behaviors, rights, and obligations that define a person's place in society.
7)	Letters used by Vikings for sagas.
8)	Composer of <i>Ring Cycle</i> and “Here Comes the Bride.” (The answer does not have to include the letter “R”)
9)	Sculptor of <i>The Thinker</i> as part of his <i>The Gates of Hell</i> .
10)	Novel by Daphne du Maurier about the second Lady De Winter, who broods over her predecessor, the title figure.
11)	Former Chief of Staff to President Obama who was elected Mayor of Chicago in 2011. (The answer does not have to include the letter “R”)
12)	Former Massachusetts governor, who, as of July 2011, is considered the frontrunner for the 2012 Republican Presidential nomination.
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14)	Friend of Charlemagne who dies in namesake epic poem.
15)	Eastern European nation led by dictator Nicolae Ceaucescu until overthrow of Communism in 1989.
16)	US president who promoted supply-side economics.
17)	Tallest volcano in Washington state.
18)	Organelle that is the site of protein production.
19)	Variation of the Doppler Effect in objects moving away from the viewer.
20)	US state founded by Roger Williams and Anne Hutchinson.

Period Two—Worksheet Answers

Answer these questions, the answers to which all begin with the letter “R.”

1)	European river that forms part of the border of Germany and France; also the longest river in Germany. ANSWER: Rhine River
2)	Ritual signaling a child's transition to adulthood, such as the Bar Mitzvah and Confirmation. ANSWER: Rite of Passage
3)	Type of computer memory that stores instructions and files for immediate processing. ANSWER: Random Access Memory [or RAM]
4)	Ability of a telescope or camera to see small details. ANSWER: Resolution
5)	A question posed purely for effect. ANSWER: Rhetoric [or Rhetorical]
6)	Set of behaviors, rights, and obligations that define a person's place in society. ANSWER: Role
7)	Letters used by Vikings for sagas. ANSWER: Rune
8)	Composer of <i>Ring Cycle</i> and “Here Comes the Bride.” (The answer does not have to include the letter “R”) ANSWER: Richard Wagner
9)	Sculptor of <i>The Thinker</i> as part of his <i>The Gates of Hell</i> . ANSWER: Auguste Rodin
10)	Novel by Daphne du Maurier about the second Lady De Winter, who broods over her predecessor, the title figure. ANSWER: Rebecca
11)	Former Chief of Staff to President Obama who was elected Mayor of Chicago in 2011. (The answer does not have to include the letter “R”) ANSWER: Rahm Israel Emanuel

12)	<p>Former Massachusetts governor, who, as of July 2011, is considered the frontrunner for the 2012 Republican Presidential nomination.</p> <p>ANSWER: Willard “Mitt” <u>Romney</u></p>
13)	<p>Transcendentalist and mentor of Henry David Thoreau; author of <i>Self-Reliance</i>. (The answer does not have to include the letter “R”)</p> <p>ANSWER: Ralph Waldo <u>Emerson</u></p>
14)	<p>Friend of Charlemagne who dies fighting in Spain in namesake epic poem.</p> <p>ANSWER: <u>Roland</u> [accept <i>Song of <u>Roland</u></i> or <i>Chanson of <u>Roland</u></i>]</p>
15)	<p>Eastern European nation led by dictator Nicolae Ceaucescu until overthrow of Communism in 1989.</p> <p>ANSWER: <u>Romania</u> [or <u>Rumania</u>; or <u>Roumania</u>]</p>
16)	<p>US president who promoted supply-side economics.</p> <p>ANSWER: Ronald <u>Reagan</u></p>
17)	<p>Tallest volcano in Washington state.</p> <p>ANSWER: Mount <u>Rainier</u></p>
18)	<p>Organelle that is the site of protein production.</p> <p>ANSWER: <u>Ribosome</u></p>
19)	<p>Variation of the Doppler Effect in objects moving away from the viewer.</p> <p>ANSWER: <u>Redshift</u></p>
20)	<p>US state founded by Roger Williams and Anne Hutchinson.</p> <p>ANSWER: <u>Rhode Island</u></p>

Period Three—Ten tossups, Ten 2-part bonuses

11. This mathematical entity is defined parametrically by the equation $l = r(1 + \cos(\theta))$ ["L equals R times the quantity one plus cosine of theta"]. They have an eccentricity of one, and $1/4a$ is the equation for their foci, which along with a directrix define them. For 10 points, name this conic section with the general form $ax^2 + bx + c$.

ANSWER: **parabola**

He exacts revenge on his uncle Claudius for killing his father and marrying his mother. For 10 points each:

[10] Name this main character of a Shakespearean play who says "To be, or not to be."

ANSWER: **Hamlet**

[10] Hamlet is loved by this sister of Laertes who commits suicide.

ANSWER: **Ophelia**

12. This author wrote *The Sirens of Titan* and *Player Piano*. He wrote of Kilgore Trout in *Breakfast of Champions* as well as works which feature ice-nine and the bombing of Dresden as seen through the eyes of Billy Pilgrim. 10 points, name this American science fiction author of *Cat's Cradle* and *Slaughterhouse-Five*.

ANSWER: Kurt **Vonnegut**, Jr.

His accuser has come under suspicion for lying on her asylum application. For 10 points each:

[10] Name this French financier who was accused of assaulting a New York hotel maid in May 2011.

ANSWER: Dominique **Strauss-Kahn**

[10] The allegations against Strauss-Kahn caused him to resign as head of this organization which monitors the global financial system.

ANSWER: **International Monetary Fund** [or **IMF**]

13. This opera's first act sees a knife fight in a cigarette factory. Micaela's husband Don José is rejected by in favor of Escamillo, a bullfighter, in this opera. This opera sees the "Toréador Song" and the "Habanera" sung by the title character, who lives in Seville. For 10 points, name this George Bizet opera about a gypsy girl.

ANSWER: **Carmen**

He wrote *Billy Budd* and *The Piazza Tales*. 10 points each:

[10] Name this author who created Queequeg and Captain Ahab in *Moby-Dick*.

ANSWER: Herman **Melville**

[10] Melville also wrote this short story, in which the title worker always says "I would prefer not to" when asked to do things.

ANSWER: "**Bartleby, the Scrivener**"

14. This novel's protagonist gives a diamond to the impoverished barkeeper Caderousse. Later, this novel's protagonist receives a six million franc line of credit from Danglars, reveals the treachery of Fernand in Greece, and is reunited with Mercedes. For 10 points, name this novel about the revenge of Edmond Dantes, written by Alexander Dumas.

ANSWER: *The* **Count of Monte Cristo**

Answer these questions about deals in American history, for 10 points each:

[10] This plan enacted by Franklin Delano Roosevelt sought to boost the American economy out of the Great Depression through programs such as the Works Progress Administration.

ANSWER: **New Deal**

[10] This shapely deal enacted by Theodore Roosevelt sought to protect working class Americans by attacking trusts and regulating industry.

ANSWER: **Square Deal**

15. The Spanish double-“i” sound is pronounced as this letter which comes from the Greek upsilon. Also in Spanish, it divides the parents' surnames in a last name, is replaced by an “e” when it comes before the “i” sound, and means the word “and.” For 10 points, name this letter that, in English, is sometimes a vowel.

ANSWER: **Y**

Answer these questions about mathematical terms, for 10 points each:

[10] Name this operation which is a measure of how a function is changing at a certain point. Ways of finding it include the power and chain rules.

ANSWER: **derivative** [or **derivation**]

[10] The derivative of a curve intersects it at only one point. Name this term for a line which intersects a curve at only one point.

ANSWER: **tangent** line

16. This leader failed to obtain reelection despite the end of the Quasi-War. That conflict had been triggered by involvement in the XYZ Affair by this president. This president appointed John Marshall Chief Justice and oversaw the passage of the unpopular Alien and Sedition Acts. For 10 points, name the second president of the United States.

ANSWER: **John Adams** [prompt on **Adams**]

His Fallingwater features cantilevered balconies and a stream running through the structure. For 10 points each:

[10] Name this American architect of the Guggenheim Museum in New York, the leader of the Prairie School.

Answer: Frank Lloyd **Wright**

[10] This Chinese-American Architect designed the East Building for the National Gallery of Art, but is best known for the glass pyramid he built for the Louvre in Paris.

Answer: Ieoh Ming **Pei**

17. This artist sculpted what appears to be a large baboon in Chicago's Daley Plaza. Responsible for *Saltimbanques* and *The Absinthe Drinker*, he painted *The Old Guitarist* during his Blue Period. For 10 points, name this Spanish painter of the cubist *Les Femmes d'Alger* and *Guernica*.

ANSWER: Pablo **Picasso**

Answer these questions about power generation, for 10 points each:

[10] The US is currently progressing towards this type of electrical grid featuring networked meters to monitor electricity use and other tools to save energy.

ANSWER: **Smart** Grid

[10] The smart grid will hopefully make these power outages less frequent. The rolling variety of these events can be a last resort to try to save power, while the brown variety only sees some power loss.

ANSWER: **Blackouts**

18. Pencil and paper ready. If there is a 18% chance of A occurring and 20% chance of B occurring, what is the probability of both B and A not occurring? The probability is equal to the probability of A not occurring multiplied by the probability of B occurring. For 10 points, find the product of 82% and 80%.

ANSWER: **65.6%**

This work cites a pin factory to illustrate the benefits of division of labor. For 10 points each:

[10] Name this work about the effects of the “invisible hand” of the free market, a foundation text of modern economics.

ANSWER: *An Inquiry into the Nature and Causes of **The Wealth of Nations***

[10] This Scotsman wrote *The Theory of Moral Sentiments* and *The Wealth of Nations*

ANSWER: Adam **Smith**

19. This leader overthrew Idris I in the 1960s to take power and later established his beliefs in the Green Book. This leader’s compound was bombed in May 2011, leading to the death of several of his grandchildren, and this leader has lost control of Misrata and Benghazi. For 10 points, name this leader who, as of July 2011, is fighting against coalition forces and rebels to hold onto control of Libya.

ANSWER: Muammar al-**Gaddafi** [or **Qaddafi**; accept any of the many variants to his name]

Answer these questions about semiconductors, for 10 points each:

[10] Most semiconductors are made of this metalloid element which names a famous California valley home to many technology companies.

ANSWER: **Silicon**

[10] In semiconductors, values for this property, a measure of how strongly a material resists current flow, lie between those for conductors and resistors. This property is measured in ohm-meters.

ANSWER: **resistivity**

20. This state in 2011 saw the resignation of John Ensign after he used illegal funding to cover up an affair. The senior senator in this state was challenged in the 2010 elections by Tea Party favorite Sharron Angle. That senator is the Senate Majority Leader, Harry Reid. For ten points, name this US state with a high Mormon population that sees a high concentration of voters in Las Vegas.

ANSWER: **Nevada**

Pencil and paper ready. Find these characteristics of the polynomial $x^2+2x-15$. For 10 points each:

[10] Find the roots of the polynomial $x^2+2x-15$.

ANSWER: **-5 and 3** [accept **(x-3) and (x+5)** or **(-5, 0) and (3, 0)**]

[10] Find the vertex of the polynomial $x^2+2x-15$.

ANSWER: **(-1, -16)**

Tiebreakers

1. This war included the siege of Fort Louisburg and the death of General Braddock. Montcalm battled General James Wolfe on the Plains of Abraham in this North American version of the Seven Years' War. For 10 points, name this war that saw France lose all its colonial possessions in Canada and the Ohio Valley after the signing of the Treaty of Paris in 1763.

ANSWER: **French and Indian** War [accept **Seven Years** War before mentioned]

Answer these questions about a famous French novel, for 10 points each:

[10] This novel tells the story of Marius Pontmercy, who fights for justice at the barricades, the girl he loves, Cosette, and her adopted father, Jean Valjean.

ANSWER: **Les Miserables**

[10] *Les Miserables* is by this author of *The Hunchback of Notre Dame*.

ANSWER: Victor **Hugo**

2. This author wrote, "I hope to see my pilot face to face" in "Crossing the Bar." In another poem by this poet, the speaker wants "to strive, to seek, to find, and not to yield." Another of his poems begins "Half a league, half a league onward." Name this poet laureate to Queen Victoria who wrote "Ulysses" and "The Charge of the Light Brigade."

ANSWER: Alfred, Lord **Tennyson**

Answer these questions about a type of nitrogenous base, for 10 points each:

[10] DNA's nitrogenous bases are divided into purines and this type of base made up of a single ring of carbon and nitrogen atoms bonded to hydrogens.

ANSWER: **pyrimidines**

[10] This pyrimidine base takes the place of Thymine in RNA.

ANSWER: **Uracil**

3. Max von Laue discovered the diffraction of these entities in crystals. Rosalind Franklin used them to see the structure of DNA, and they are distinguished from gamma rays by their longer wavelengths. For 10 points, name this type of electromagnetic radiation used to look at bones.

ANSWER: **x-rays**

The unearthing of his corpse by a Russian archaeologist occurred just days before Germany's invasion of Russia, leading some to suspect a curse. For 10 points each:

[10] Name this crippled leader who left a pyramid of human skulls after sacking Delhi.

ANSWER: **Tamerlane** [accept **Timur** the Lame]

[10] Tamerlane was descended from these central Asian conquerors led by their Khans.

ANSWER: **Mongols**

4. This artist's *Japanserie* features bridges in the rain. One of his works shows a restaurant in Arles and is titled the *Cafe Terrace at Night*, while another features five ugly peasants eating around an oil lamp and is named *The Potato Eaters*. For 10 points, name this painter of many sunflowers and *Starry Night*.

ANSWER: Vincent **Van Gogh**