

# Tri County League: Varsity Toss-up 

## 2 rounds of 75 questions

## 2010

## 1. Doors

What kind of door, invented in 1888, is always open and always closed?
revolving door

## 2 . Sculptures

In 1972, Michigan sculptor Charles Cooper completed his eight-foot bronze statue of what legendary character that now stands in Memorial Park above the east portal of the Big Bend Tunnel near Talcott, West Virginia?

John Henry

## 3. Literary Quotes

This is in what book by Izaak Walton?
Nay, the trout is not lost, for pray take notice that no man can lose what he never had.

The Compleat Angler

## 4. Energy

This describes what process?
A slow-moving neutron smashes into the nucleus of a uranium isotope. It splits the nucleus into two new atomic nuclei plus several neutrons converting some of the mass into energy.

## 5. Turpentine

Turpentine is manufactured from what complex substance secreted by plants?
6.

Round 1 Page 1
Volcanoes
Name the part of the volcano within which Crater Lake is situated.
caldera

## 7. Wars

What war was largely a stalemated conflict of trench warfare with massive artillery barrages and suicidal infantry attacks against murderous machine gun and rifle crossfire?

World War I

## 8 . Poems

This is from what poem by Lewis Carroll?
"Will you walk a little faster?" said a whiting to a snail,
"There's a porpoise close behind us, and he's treading on my tail."

Lobster Quadrille

## 9. Examinations

What kind of examination is required in the event of a coroner's inquest?
autopsy (post-mortem)

## 10. Rights

The freedom of people to gather together in public is called freedom of ...

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11. Angles

An inscribed angle is measured by what fraction of its intercepted arc?

## 16.

## Frontier Warmth

Popular in the Old West and Canada, name the wool blanket that was usually white with wide, contrasting stripes of color at either end.

## 12. Polluted Ponds

What scenic lake near Mt. St. Helens was devastated in 1980?

Spirit Lake

## 13. Waterway Formation

Around 10,000 years ago, the British Isles were part of mainland Europe. As the ice sheet melted, a lake formed in the southern part of what is now the North Sea. The outflow channel from the lake entered the Atlantic near Dover and Calais. Around 6500 B.C., catastrophic erosion swept away the chalk to create what channel?

English Channel
14. Military Engagements

This is about what war?
In June of 1952 U.N. air attacks destroyed major hydroelectric installations on the Yalu.

Korean War

## 15. Birds

They stand five feet high, taller than any other North American bird. With brilliant red faces, white plumage and a shrill, trumpeting cry, they are conspicuous in coastal Texas, stalking on their stilt legs. Name these endangered birds.

Hudson's Bay Blanket
17.

Corporate Anagrams
"No wire unsent" is an anagram for what major communications corporation?

Western Union

## 18. Musical Parodies

This is a parody of what song from "Fiddler on the Roof"?
If I had some donuts,
Yummy, yummy, pat the tummy, with a yummy yummy yum.
All day long I'd selly, selly some.
Chocolatey ones with nuts.

If I Were a Rich Man

## 19. Crimes

What crime is associated with Julio Iglesias' father, Frank Sinatra's son, J. Paul Getty's grandson, Aldo
Moro, Adolph Coors III, Patty Hearst, and Charles Lindbergh II?
kidnapping

## 20. Musicals

What character in "The King and I" sings this?
Whenever I feel afraid
I hold my head erect
And whistle a happy tune
So no one will suspect I'm afraid.

## 21.

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Physiology
What in the body has these characteristics?
-synthesized by living cells
-effective in minute quantities
-secreted into the bloodstream and transported by the circulatory system -acts on a target organ distant from the site where it was synthesized
-regulates a physiological function
hormone

## 22. African Geography

In which cardinal direction is a person traveling in Africa if he goes from Mauritania to Mali to Niger to Chad?

## 23. <br> Pepper Permutations

You have five quart jars of jalapeno peppers. In how many ways can these jars be arranged on a shelf?

## 24. Weather Sayings

Who said this?
Everybody talks about the weather but nobody does anything about it.

## Mark Twain

## 25. Environmental Disasters

This is about what ship?
The possible environmental cost of heavy oil usage became clear in 1989 when an oil tanker struck a reef in Prince William Sound, Alaska, spilling about 10 million gallons of crude oil and creating a slick covering an area the size of Massachusetts.
$26 . \quad$ Poe
Round 1 Page 3
What story by Edgar Allan Poe is narrated by a man who has been invited to visit his childhood friend named Roderick?

## 27.

The Fall of the House of Usher
Groundwater moves downward through permeable rock until it reaches an impermeable rock layer. Above the impermeable rock, all openings are filled with water to form a zone of ...

## saturation

## 28. Inflated Writing

After it is decoded, what is the last word in this sentence?
He fiveced the fivemidable threetor three capithreelnine.
capitulate

## 29. Emerson

According to Ralph Waldo Emerson, one must be a nonconformist to be a ...

## man

## $30 . \quad$ Divisors

Exclude the numbers 1 and 24 and then calculate the sum of the positive integer divisors of 24 .
31. Legendary Sons

Who was Uther Pendragon's son?

Arthur

## 32.

Fictional Quotes
What fictional character says this?
I was exceedingly surprised with the print of a man's naked foot on the shore.

Robinson Crusoe

## 33.

In what work by Ernest Hemingway is this quote? The world is a fine place and worth fighting for.

For Whom the Bell Tolls

## 34. Music Logarithms

The next C above middle C has a standard frequency of 512 vibrations per second. The next C above has a frequency of how many vibrations per second?

1024

## 35. Ancient Regions

Name the ancient Asian region between the Tigris and Euphrates largely included by the modern country of Iraq.
36. Covalent Chemistry

What is another name for covalent compounds containing carbon?

## 37. The Constitution

The federal supremacy clause is in which article of the Constitution?

Article VI

## 38. Temperature

That temperature at which the kinetic energy of atoms and molecules is at a minimum is called ...
absolute zero

## 39. Photography

A deepfocus shot is one in which both the foreground and the background are in focus. Such a shot has an exceptional depth of ...

## field

## 40. Color Vision

Consider an object that reflects equal amounts of red and green light, stimulating the red and green cones equally. As a result, the viewer perceives what color?
$41 . \quad$ Winds
In which cardinal direction does the winter monsoon of southern Asia generally blow?

## 42. Alliterative Cliches

What three-word alliterative expression applies to one who has been through some misadventure and emerged unharmed and intact?
safe and sound

## 43. Restrictions

"Time, place, and manner restrictions" relate to what right guaranteed in the Bill of Rights?

What edentate mammal received its name because it feeds entirely on hymenopterous insects?

## anteater

## 45. Election Algebra

3600 votes were cast for the two candidates running for town undertaker. The winner received a majority of 240 votes. How many votes were cast for the loser?

46

## Round 1 Page 5

46. Family Ties

The Scottish physicist who first developed a practical application for radar was a descendant of what man who developed the steam engine?

James Watt

## 47. <br> Birds and Lovers

It perched on the bust of Pallas Athene. With what one word did this bird answer the questions of a bereaved lover?
nevermore

## 48. <br> Lava

A jet of lava sprayed into the air by the rapid formation and expansion of gas bubbles in the molten rock is called a lava ...

## fountain

## 49. Macedonia

Ancient Macedonia included parts of Bulgaria and
Yugoslavia and what other present-day country?

## 50. History of Science

Name the medieval pseudoscience and precursor of chemistry through which people attempted to transmute lead into gold.

## 51. Flowers

What part of a flower consists of the filament and anther?
stamen

## 52. Scandals

What scandal was brought to public attention in 1923 when Harry Sinclair, owner of Mammoth Oil, was convicted of contempt of court following the bribery and conspiracy convictions of Secretary of Interior Albert Fall?

Teapot Dome

## 53.

## Museums

Opened in 1819 and a superb example of Spanish neoclassical architecture, name the major art museum in Madrid.

## 54 . Judges

Although he had studied law only briefly and had not judicial experience, who was appointed as chief justice by John Adams?

## 56. <br> Weapons

The first large-scale use of this weapon occurred in 1915 when the Germans launched an attack on Canadian and French troops near Ypres, France. Name the weapon.

## 57.

Paneling Problems
The cost of paneling is $\$ .60$ per square foot. How much will it cost to panel a wall 26 feet wide and 8 feet high?
$\$ 124.80$

## 58. Terrorist Groups

Black September was a terrorist group founded in what Mideast country in 1970 ?

Jordan

## 59. Choruses

What are the first words of the chorus which follows these lyrics?
As I was walking down the street,
Down the street,
Down the street,
A pretty gal I chanced to meet
Under the silvery moon.

John Marshall

## 55. Learning

Pavlov's dogs learned to salivate at the sound of a bell. Then for a long time no food accompanied the bell and eventually the dogs quit salivating. This kind of conditioning is known by what name associated with dinosaurs and dodos?

Buffalo Gals

## 60 . Legends

The creature described as a half-woman and half-cat that supposedly still haunts the forests of East Tennessee is known as what cat?

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61. Defiant Quotes

What prime minister said this in 1940?
Hitler knows that he will have to break us on this island or lose the war. If we can stand up to him, all Europe may be free and the life of the world may move forward into broad, sunlit uplands.

Winston Churchill

## 62 . Passings

This is from a 1995 obituary about whom? Born to Boston ward politics, she became the matriarch of America's tragic royal family.

## 66 . Automobiles

The annually renewed document carried in an automobile listing information about the vehicle's ownership is a ...
registration

## 67. Curious Writings

This is what kind of literature?
Here lies a father of 29 .
There would have been more
But he didn't have time.

Rose Kennedy
63. Chemical Compounds

There are two types of chemical compounds because there are two ways to achieve the noble gas configuration. One is by the transfer of electrons. The other is by the ...

## sharing of electrons

## 64. <br> Soil

Which soil horizon consists of incompletely weathered parent material and is transitional between unweathered bedrock below and developing soil above?

C horizon
65. Taxes

The form to be filed with a taxing authority by a taxpayer which details one's income, expenses, exemptions, and deductions is called a tax ...
infringed

## 69 Short Story Settings

What country is the setting for Hemingway's story, "In Another Country," in which Nick Adams is hospitalized while trying to regain use of a knee wounded in a World War I skirmish?

## Italy

## 70. Phosphorylation

Phosphorylation is the conversion of ADP to ...
71.

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What tale by Edgar Rice Burroughs is about the Iron Mole, a submarine for land that takes passengers into the inner Earth, a region inhabited by strange creatures?

At the Earth's Core

## 72. Poetic Quotes

From what poem were these lines taken?
At length did cross an albatross through the fog it came.
As if it had been a Christian soul we hailed it in God's name.
73. The Whiz
What group in American government became "Eight Old Men and a Whizzer" when Byron White joined their ranks?

## Supreme Court

## 74.

 Italian CeramicsWhat Italian term, used in ceramics, literally means "cooked earth"?

## 75.

 Space SpheresThat area of space, around the Earth, which is influenced by the Earth's magnetic field is known as what sphere?
1.

## Tri County League: Varsity Toss-up Round 2 Page 1

A famous painting by Emanuel Leutze is entitled "Washington Crossing the ..."

Delaware
2. Stellar Geography

When observing the North Star, you measure the angle made by your line of sight and the horizon. That angle equals your ...
latitude

## 3. Algebraic Expressions

Express these words as an algebraic equation. Twice the sum of nine and $y$ is the same as the difference of y and seven.

$$
2(9+y)=y-7
$$

4. Sedimentary Rock

Sandstone, mudstone, shale, and what other rock constitutes about 99 percent of all sedimentary rocks?
limestone

## 5. Crimes

If a person falsely claims to represent a charity to obtain a donation that he then keeps for himself, this crime of misstating facts to obtain money is called ...

## 6. <br> Court

A voluntary acknowledgment in court that certain facts are true is a(n) ...
admission (stipulation)

## 7. <br> Vaporization

The molar heat of vaporization for sodium chloride is 40.8 kilocalories per mole. How much heat is needed to vaporize 4 moles of this substance?
163.2 kilocalories

## 8. <br> Triples

What is the third number in this Pythagorean triple? $5,12, \ldots$
9. Colonies

What colony in the southeast corner of modern
Massachusetts was a separate entity until 1691 when it became part of the Province of Massachusetts Bay?

Plymouth

## 10. Rivers

The Dnieper River practically bisects what Eastern European country?
11.

## Tri County League: Varsity Toss-up Round 2 Page 2

What gas is given off when inorganic acids and bases are mixed?
hydrogen

## 12. Kansas History

Had Kansas voters not rejected the Lecompton Constitution in 1858, Kansas would have been admitted to the union as what kind of state?
slave state
13.

Long Novels
Named after a mythical king and Trojan War leader, what novel is a stream of consciousness account of one day in the lives of Dubliner Leopold Bloom and his wife, Molly?

Ulysses

## 14. Tycoons

What American railroad tycoon was known as "the Commodore"?

## 16.

Fighting Words
What word completes this quote by Marshal Foch at a critical time during World War I?
My right flank has fallen. My left flank is weakening. The situation is excellent. I am ...
attacking 17. Unions

In the early 1900 s , members of what union were known as Wobblies?

Industrial Workers of the World 18. Deadly Disagreements Alexander Hamilton called whom "a dangerous man of whom he could detail a still more despicable opinion"?

Aaron Burr

## 19. Paintings

A 19th-century painting by John Waterhouse shows the mighty Ulysses tied to the mast of his ship while his crew is making a desperate attempt to row past what seductive sea nymphs?

## Sirens

## 20. Humidity

The air in a closed container is saturated with water vapor at 20 degrees C . What is its relative humidity?

## 21. Stars

Which of the four main classifications of stars is missing from this list?
supergiants
giants
main sequence
dwarfs

## $22 . \quad$ Lines

Mathematicians speak of that portion of a line between and including two specific points as a line ...
segment

## 23. <br> Courts

What court was the judicial body associated with the League of Nations?

## 26.

## Round 2 Page 3

Charcoal heated in steam and air is free of tarry impurities. Its porosity is increased and it has remarkable absorbing power. Such charcoal is ...
activated

## 27. Fossils

Their oval flattened bodies consisted of a head covered by a semicircular dorsal shield and a thorax and abdomen, protected by overlapping dorsal plates. Their heads bore a pair of antenna-like appendages and a pair of compound eyes. Name these extinct marine arthropods.
trilobites

## 28. Etymology

The words captain, capital, caprice, biceps and cadet are derived from the Latin word "caput" which means

World Court

## 24. Algebraic Operations

From $3 p-2$ subtract $-7 p+5$.

## $25 . \quad$ Immigration

The formal removal of aliens from the U.S. because they have violated immigration laws is called ...

## ruckus

## 30. Organic Chemistry

They are components of nucleotides such as guanine and adenine. They are proton acceptors or electron donors in solution. Name this general category of compounds.

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31. Blood

About 140,000 red blood cells are created every minute in your bone marrow. After a useful life of a few months, they are destroyed in what organ?

## 32. Veins

What veins receive the blood from the exterior of the cranium?
liver

## 36 . Percentage

There are 350 people wanting Mr. Bush to give them a job. $64 \%$ of these people have read Mr. Tower's book, "How to Win Friends and Influence Senators." What percent of the job applicants have read Mr. Tower's book?

## 37. Poetry

What are the last five words in this excerpt from a poem by Coleridge?
Water water everywhere
And all the boards did shrink.
Water water everywhere ...
jugular

## 33. <br> Radical Change

The Great Proletarian Cultural Revolution, a radical movement in China, ended only with the arrest of the Gang of Four and the death of what Communist leader?

## 34. Technology

Complete this quote by Arthur Clarke.
Any sufficiently advanced technology is indistinguishable from ...

## 35. The Confederacy

Many Southerners believed that what agricultural product was of such importance to Britain that it would guarantee the South's success if it seceded from the United States?

Nor any drop to drink

## 38. Industrialists

Who established the Union Iron Mills, took over the Homestead Steel Works, and by 1899, controlled the bulk of U.S. steel production?

## 39. Imperialism

A permanent settlement on the peninsula of Macao was secured in 1557 by bribery and the payment of rent. What European country established this settlement?

Portugal

## 40. The Skull

The bony cavity of the skull that contains and protects the eyeball is an ...

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41. Musical Families

Since 1580 , nearly 100 members of what German family have made their livings as musicians?

## 42. Evolution

This is a sequence illustrating the evolution of what mammal?
Hyracotherium, Mesohippus, Merychippus, Pliohippus, Equus caballus

## 43.

Instrumental Music
What form of Spanish dance music usually includes pronounced finger tapping on the belly of a guitar?
flamenco
44. Penguin Tissues

Penguins that sit on their eggs for weeks without feeding are living off the fat reserves stored in what kind of tissues?

## 46.

Philosopher-Scientists
Name the English philosopher and statesman who replaced the "a priori" method of the scholastics with a formulation of the inductive method of modern science.

Francis Bacon


#### Abstract

47. Ballads


What captain's name is missing in this verse?
I'm Captain ---- of the Horse Marines, I feed my horse on corn and beans,
And often live beyond my means,
Though a captain in the army.

Jinks

## 48. Chemical Compounds

Crystals of sodium carbonate are efflorescent and decompose to a white powder while releasing what substance into the atmosphere?

## 49. Twain's Tales

Who is the central character in the Mark Twain story that includes this line?
He had discovered a great law of human action, without knowing it, namely, that in order to make a man or a boy covet a thing, it is only necessary to make the thing difficult to attain.

## Tom Sawyer

## 50. Disasters

According to some accounts, it was sparks from the great Chicago fire of 1871 that started the forest fires that destroyed a million acres of Michigan and Wisconsin timberland. In this fire, more than 1200 people died in what Wisconsin logging town?

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51. Earth Science Adjectives

Something which is aeolian is borne, deposited, produced, or eroded by what?

## 52. Ancient People

This is about what Mediterranean people?
They were merchants, pirates, and the greatest seafarers of the ancient world. They lived along a coastal strip at the eastern end of the Mediterranean which is now part of Syria, Lebanon, and Israel.

Phoenicians

## $53 . \quad$ Uncommon Careers

These folks participated in what illegal activity?
John Andre
Nathan Hale
Alger Hiss
Ethel Rosenberg
Mata Hari
Allan Pinkerton
spying (espionage)

## 54 Liquids

The cooling of a liquid to below its freezing point without a change from the liquid to solid state is called
supercooling

## 55. Organ Afflictions

Rheumatic fever affects the valves of the ...

## 56.

Foods
The length of time a food product may be stored and still be safe to eat is called its ...
shelf life

## 57. Coordinates

In the system of Cartesian coordinates, the x -coordinate of a point in a plane is called the ...
abscissa

## 58 . Philanthropists

This is about whom?
In his 1895 will, he bequeathed the money he reaped from inventing dynamite to five prizes in various fields of human endeavor.

## 59. Negative Exponents

Solve this equation for $x$.
$x$ squared $+5=y$

$$
x=(y-5) \text { to the } 1 / 2 \text { power }
$$

## 60 . Navigation

Name the instrument that can be used to figure out a ship's position by measuring the angle between a star or the Sun and the horizon.

## 61.

61. Light

What kind of light can be compared to a taut rope passing through a picket fence that can only vibrate in a direction parallel to the pickets?
polarized light

## 62. Amendments

Which amendment protects an individual from furnishing testimony or evidence that may be used in a legal proceeding against himself?

## 66.

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Annually, which U.S. state has the greatest number of lightning injuries and deaths?

## 63. Legal Concepts

In presenting a point for the defense of her client, lawyer Lorraine referred to several previous decisions which she said should be used as standards in this case. Such relevant prior legal decisions are called ...
precedents
$64 . \quad$ Painters
It depicts a firing squad of French troops executing Spaniards. Entitled "The Third of May 1808," this painting was created by Francisco ...

## 68. The Spine

The sacral section of the spinal cord is shortest.
Which section is longest?

## 67. Political Abbreviations

What military abbreviation referred to a zone between North and South Korea along the 38th parallel and a zone between North and South Vietnam along both sides of the 17th parallel?
69. Shakespearean Idioms

Complete this expression that first appeared in "Love's Labour Lost." the apple of her ...

## 70. Disease

These diseases affect which body organs? bronchitis
tuberculosis
pneumonia

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71. 

## Participles

What type of participle is illustrated in this line?
Overwhelmed, she continued to swoon.
past participle
72. Namesakes Down Under

An enormous shallow salt lake and major peninsula in Australia are named after the British explorer, John Edward ...

> Eyre
73. Division in Other Bases

Divide 1011 base 2 by 11 base 2 .

11 remainder 10 (or 3 rem. 2)
74. Ancient Geography

Thrace is a historical region in the southeastern part of what peninsula?

Balkan Peninsula
75.

Contemporary Conundrums
What is the phrase for the position of those who oppose abortion and believe that a fetus is a person?

