

# *Knowledge Master*

**Tri County League - Varsity Toss-up**

**10 rounds of 75 questions**

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

**1. Overtures**

Tchaikovsky's "1812 Overture" was inspired by Napoleon's retreat from what city?

Moscow

**2. Big Business**

Conglomerates are usually created through acquisitions or ...

**3. Anatomy**

Intercostal cartilage is associated with what bones?

mergers

**4. Major Offenses**

Manslaughter and murder are the two major categories of what crime?

ribs

**5. Plant Classification**

Any plant whose seeds are borne within a matured ovary is an ...

homicide

angiosperm

**6. Folklore**

With what island nation are zombie legends mainly associated?

Haiti

**7. Aces**

What German World War I pilot who led a group called the Flying Circus shot down 80 Allied aircraft?

**8. Asteroids**

On the basis of their albedos, asteroids fall mainly into two compositional classes. The lighter ones are dubbed S-type for "stony." The darker ones are dubbed C-type for ...

Manfred von Richthofen (Red Baron)

**9. Biological Classification**

Mariel Hemingway, Kareem Abdul-Jabbar, Condoleezza Rice, and Kobe Bryant all belong to what taxonomic order?

carbon

**10. Knowledge Galore**

What adjective means "having unlimited, total knowledge of everything"?

primate

omniscient

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

### 11. Abrasives

What artificial abrasive material with a hardness of 9.5 on the Mohs scale is produced by the fusion of coke and sand heated in electrically fired furnaces?

silicon carbide

### 12. River Mouths

The mouths of these rivers are in seas adjacent to what ocean?

Kolyma  
Indigirka  
Yana  
Lena

Arctic Ocean

### 13. Corporations

An annual meeting of all those who own stock in a corporation is what kind of meeting?

shareholder's (stockholder's) meeting

### 14. Military Transportation

What means of transportation was introduced into Italy by the Etruscans around 700 B.C.?

chariots

### 15. Legendary Birds

In Arabian legend, it was a fabulous white bird of enormous size with such strength that it could "truss elephants in its talons" and carry them to its mountain nest. Identify this bird associated with Sinbad the Sailor.

Roc

### 16. Shared Names

What pepper and South American capital share the same name?

Cayenne

### 17. Headwaters

The headwaters of the Monongahela River are in what state?

West Virginia

### 18. Architecture

It is an example of Doric architecture built in honor of the patron goddess of Athens from white pentelic marble. It is 237 feet long with 8 outer columns at each end and 17 columns at each side. Name it.

Parthenon

### 19. Wildlife

A species of animal that is not endangered but may become so in the near future is described as being ...

threatened

### 20. Airships

Name the most successful German airship that made 144 ocean crossings before being retired in 1937.

Graf Zeppelin

## Tri County League - Varsity Toss-up Round 1 Page 3

### 21. Mattresses

A mattress measuring 60 by 80 inches fits what kind of bed?

queen

### 22. Calculus

Assume that  $y$  equals the natural log of  $x$ . Find the derivative of  $y$  with respect to  $x$ .

$1/x$

### 23. Triangle Bases

The area of a triangle is 30 square yards and its height is 6 yards. The length of the base is ...

10 yards

### 24. Legends

The world's first known written legend is "Gilgamesh." This Sumerian legend was written in what alphabet?

cuneiform

### 25. Astronomy

There is a systematic uniformity in the motion of the planets. All travel around the Sun from west to east in nearly the same plane called the ...

ecliptic

### 26. Music

The "Goldberg Variations" by Johann Bach were written for what musical instrument?

piano (clavier, harpsichord)

### 27. Historical Quotes

He said, "The people of Nebraska are for free silver. Therefore I am for free silver. I'll look up the reasons later." Name this congressman known as the Great Commoner.

William Jennings Bryan

### 28. Legendary Knights

He was the son of the slain Sir Pellinore and was reared in the forest by his mother. He had unmannerly conduct and physical grace. The Holy Grail appeared before him in a vision. Name this knight.

Sir Percival (Parsifal)

### 29. Excretions

Bilirubin is a yellow substance that results from the breakdown of red blood cells. It is excreted as a component of what green liquid?

bile

### 30. Award Analogies

Broadway is to Tony as Hollywood is to ...

Oscar

## Tri County League - Varsity Toss-up Round 1 Page 4

**31. Henry Ford**

Henry Ford said, "I will build a motor car for the great multitude." What car fulfilled this promise?

Model T

**32. Latin America**

In 1819, Simon Bolivar became president of a new nation called Gran Colombia, which included the present-day countries of Colombia, Venezuela, Ecuador, and ...

Panama

**33. Technology**

Name the science of adapting equipment and working conditions to improve productivity.

ergonomics

**34. Short Stories**

The title of what Stephen Vincent Benet story was taken from this excerpt from a psalm?

By the waters of Babylon, there we sat down and wept, when we remembered Zion.

By the Waters of Babylon

**35. Motion**

Linear displacement in linear motion corresponds to what kind of displacement in circular motion?

angular displacement

**36. Circles**

To the nearest whole number, what is the radius of a circle with a circumference of 942 feet?

150 feet

**37. Island Economics**

The most significant agricultural product of Cuba is ...

sugar cane

**38. Beliefs**

Opposition to war, to the use of military force, and to military preparation, and the belief that international disputes should be settled peacefully is called ...

pacifism

**39. Other Base Division**

Divide  $101_{\text{base } 2}$  by  $10_{\text{base } 2}$ .

10 remainder 1

**40. Plutons**

Concordant plutons result from the injection of molten rock parallel to pre-existing strata. What kind of plutons result from molten material that cuts across preexisting strata?

discordant plutons

## Tri County League - Varsity Toss-up Round 1 Page 5

### 41. Cellular Activity

Protein synthesis and most other cell functions occur outside the nucleus of the cell in the cytoplasm. The information encoded within the DNA molecule must be carried outside the nucleus. Name the molecule that is the carrier of DNA's messages.

mRNA (messenger RNA)

### 42. References

The Messier Catalogue was compiled by Charles Messier in 1787. It is of particular interest to people in what field of science?

astronomy

### 43. Composers

Name this composer and virtuoso pianist who wrote these works.

Faust Symphony  
Dante Symphony  
Hungarian Rhapsodies

Franz Liszt

### 44. Metals

A purple stain that develops in sterling when oxygen penetrates the outer surface of an object during brazing, oxidizing the copper content, is what kind of scale?

firescale

### 45. Volcanoes

Most volcanoes in South America have formed in the vicinity of the juncture of the South American plate and what other plate?

Nazca plate

### 46. Higher Ground

In 2007, geologists reported that, for the previous three years, the land in which U.S. national park had been uplifted at an unprecedented rate of nearly three inches per year?

Yellowstone

### 47. Measles

What is the etiologic agent of measles?

a virus

### 48. Modular Arithmetic

What are the two smallest integers that will make this statement of congruence true?

$x + 25$  is congruent to 3 in mod 7

6, 13

### 49. Testing

What two Asian countries conducted underground nuclear weapons tests in 1998?

India, Pakistan

### 50. Radioactive Decay

Every 5570 years, half of what isotope decays into nitrogen-14?

carbon-14

## Tri County League - Varsity Toss-up Round 1 Page 6

### 51. Trapezoids

Each leg of an isosceles trapezoid is 18 and the base angles are 60 degrees. If the upper base is 10, its altitude equals how many times the square root of 3?

9.

### 52. Stinky Stables

In Greek mythology, King Augeas had a stable that had not been cleaned in thirty years. Three thousand of what kind of animals were kept there?

oxen

### 53. Organic Chemistry

What class of organic compounds includes sugars, starch, glycogen, and cellulose?

carbohydrates

### 54. Steamboats

The first voyage of Fulton's Clermont was a round trip from New York City to what town and back?

Albany

### 55. The Roman Calendar

What term was used in the Roman calendar for the fifteenth day of March, May, July, and October and for the thirteenth day of the other months?

ides

### 56. Dinner Guests

In 1901, Theodore Roosevelt invited what president of the Tuskegee Institute to a White House dinner?

Booker T. Washington

### 57. Debate

A piece of evidence or a quote that is read to support an argument during a debate is called a ...

card

### 58. Story Titles

What story by O. Henry could have this synonymous title?

Something Bestowed Voluntarily and without Compensation from the Members of the Zoroastrian Priestly Caste

The Gift of the Magi

### 59. Astronomy

Apogee is to perigee as aphelion is to ...

perihelion

### 60. Destruction

In April of 1937, the Basque town of Guernica was destroyed by the terrorist bombers of what air force?

Luftwaffe (Nazi, German)

## Tri County League - Varsity Toss-up Round 1 Page 7

### 61. City Planners

Who laid out the grid pattern for the streets of "the city of brotherly love"?

William Penn

### 62. Men Among Men

He was a Protestant theologian and a classically trained organist. He was the author of "The Philosophy of Civilization." He won the Nobel Peace Prize in 1952. Who was this physician who worked in French Equatorial Africa?

Albert Schweitzer

### 63. Meteorological Measurement

One atmosphere equals how many pounds per square inch?

14.7

### 64. Wartime Euphemisms

During a war, the phrase "collateral damage" is used as a synonym for what harsher term?

murder (killing)

### 65. Proverbs

Complete this proverb.

You never miss the water until the well ...

runs dry

### 66. Turtle Sales

Tom sold his turtle collection. First, he sold half his turtles plus half a turtle. Then, he sold a third of the remaining turtles plus a third of a turtle. Then, he sold a fourth of what remained plus a fourth of a turtle. Finally, he sold a fifth of what remained plus a fifth of a turtle, leaving him with 11 turtles. How many did he start with?

59

### 67. Football Force

What percent more force is required to stop a 230-pound fullback than a 180-pound quarterback?

28%

### 68. Lava

What kind of basalts form when, like being squeezed from a toothpaste tube, elongated blobs of lava break out underwater and flow over previously deposited blobs?

pillow basalt (pillow lava)

### 69. Mummies

Once the bodies of ancient Egyptian pharaohs had been cleaned, the body and organs were dried in a natural rock salt consisting of sodium carbonate and sodium bicarbonate. Name this mineral.

natron

### 70. Science Fiction

In what first novel by Vonnegut do engineers and executives take over America and attempt to completely automate the country?

Player Piano



## Tri County League - Varsity Toss-up Round 1 Page 8

### 71. Musicians

In 1792, Goethe was publishing studies in the science of optics, Haydn was at the height of his fame, and the body of what composer was lying in an unmarked pauper's grave in a Vienna cemetery?

Wolfgang Mozart

### 72. Openings

What six words precede these in the opening of a novel?

... it was the worst of times, it was the age of wisdom, it was the age of foolishness, it was the epoch of belief, it was the epoch of incredulity.

It was the best of times

### 73. African Capitals

What is the nearest capital city to Tripoli?

Tunis

### 74. Life

Together, the flora and fauna of a region make up the region's ...

biota

### 75. Geologic Time

If the Mesozoic Era began 225 million years ago and lasted 160 million years, when did the Cenozoic Era begin?

65 million years ago

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

### 1. Idioms

What two-word idiom for someone who prefers to be by himself is reminiscent of a wild North American carnivore that hunts in hierarchical packs?

lone wolf

### 2. Civil War Latin

What hyphenated Latin word refers to institutions or houses that existed in America three or four decades before the Civil War?

ante-bellum

### 3. Slogans

This is the slogan of what self-governing U.S. territory in the Mariana Islands?

Where America's day begins.

Guam

### 4. Taxation

The IRS selects about one of every hundred personal income tax returns for a thorough review called a tax

...

audit

### 5. Canadian Agriculture

Two-thirds of Canada's wheat and much of its oats, barley, flaxseed, and canola are grown in which Canadian province?

Saskatchewan

### 6. Cylinders

What adjective describes a cylinder whose bases are not aligned one directly above the other?

oblique

### 7. Pollution

What are the two major categories of pollutants, based on whether or not they can be rendered harmless by natural processes?

biodegradable, nonbiodegradable

### 8. Cattle Rustling

In some states, it is illegal to carry what special kind of branding iron that cattle rustlers use to draw a brand freehand or to alter an existing brand?

running iron

### 9. Music Directions

Staccato is the opposite of ...

legato

### 10. Monopolies

Until the English explorer Henry Wickham smuggled out rubber tree seeds in 1876, what Latin American country had a complete monopoly on rubber?

Brazil

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

### 11. Subatomic Particles

It is a baryon with an electric charge of zero. It is a fermion with a basic structure of two down quarks and one up quark held together by gluons. Name this particle that composes the neutral component of atomic nuclei.

neutron

### 12. Ancient People

Around 1100 B.C., the Dorians replaced the Achaeans on what peninsula?

Peloponnesus

### 13. Armies

The Sinn Fein movement is linked to what paramilitary force opposed to political ties between Northern Ireland and Great Britain?

Irish Republican Army

### 14. Algebraic Unknowns

Determine the unknown if  $(2m+3)/7 = (3m+1)/3$ .

2/15

### 15. Metals

The word element "ferro" indicates ...

iron

### 16. Tragedies

This is about whom?

A little after midnight in June of 1968, it became clear that he had won California and South Dakota. As he walked through a kitchen passageway at the Ambassador Hotel in Los Angeles, he was fatally wounded.

Robert Kennedy

### 17. U.S. Institutions

The Big Board is what organization in New York City?

N.Y. Stock Exchange

### 18. Identification Numbers

VIN numbers are to automobiles as HIN numbers are to ...

boats (watercraft)

### 19. Atlantic Seas

What sea, really a huge eddy in the Atlantic, is known for enormous quantities of floating debris trapped inside it?

Sargasso Sea

### 20. Meteors

Each year, a meteor shower is noted on the Earth associated with the constellation Gemini. Name this meteor shower.

Geminids

## Tri County League - Varsity Toss-up Round 2 Page 3

### 21. Court Decisions

In 1959, the Supreme Court stated that what amendment "protects advocacy of opinion that adultery may sometimes be proper, no less than advocacy of socialism or the single tax"?

1st amendment

### 22. Astronaut Combinations

Ten astronauts want to get aboard a rescue vehicle that only has room for seven. How many different sets of seven people could get aboard this craft?

### 23. Psychology

What term do psychologists use for inner-orientedness?

120

### 24. Federal Finance

Through what agency does the Department of the Treasury collect federal taxes?

introversion

### 25. Myths

In Scandinavian myths, who is Freya's brother?

Internal Revenue Service

Frey

### 26. Battle Songs

These words are from a song about what battle?  
In 1814 we took a little trip along with Colonel Jackson down the mighty Mississippi.

Battle of New Orleans

### 27. Planets

Name this feature on one of the Jovian planets.  
This many-hued disturbance is a gargantuan atmospheric storm that extends deep into the cloud cover, and turns in a counterclockwise revolution every six Earth days.

### 28. Infinitives

When infinitives are followed by pronouns, the pronouns must be in what case?

Great Red Spot

### 29. Federations

Name the federation on the Persian Gulf with a name comprised of three words.

objective case

### 30. Poetic Parodies

This is from a parody of a British poem by whom?  
Much have I traveled in the realms of space,  
And many unique plates and odd cuisine  
Wound into my intestines; I had been  
The bane of spices, none would burn my taste.  
Then in Delta's expanse I'd come apace,  
Where whiskered Neelix cooked in his kitchen.

United Arab Emirates

John Keats

## Tri County League - Varsity Toss-up Round 2 Page 4

### 31. References

To whom was Pete Conrad referring with this?  
Whoopee! Man, that may have been a small one  
for Neil, but that's a long one for me!

Neil Armstrong

### 32. Passings

King Hussein died in 1999. Since 1953, he had been  
the ruler of what country?

Jordan

### 33. Glaciation

What kind of moraine forms when a moving glacier  
evenly spreads rock and debris?

ground moraine

### 34. China

What major industrial region of northeastern China is  
the home of the Manchus?

Manchuria

### 35. Monuments

One stands on London's Thames embankment and the  
other in New York City's Central Park. Name these  
two ancient Egyptian obelisks from Alexandria.

Cleopatra's Needles

### 36. Food Preparation

These are categories of what in nutrition?  
antioxidants  
emulsifiers  
stabilizers  
preservatives  
sweeteners

food additives

### 37. European Capitals

What is the southernmost Scandinavian capital city?

Copenhagen

### 38. Double Burials

Although the rest of this general is buried more than  
100 miles away at Lexington, Virginia, his amputated  
arm got its own formal military burial near  
Chancellorsville. Identify this Confederate general  
mistakenly shot and fatally wounded by his own  
troops.

Stonewall Jackson

### 39. Chemical Processes

Coal is mixed with steam and oxygen under  
controlled conditions to produce methane in a process  
called coal ...

coal gasification

### 40. Respiratory Anatomy

Humans have between 16 and 20 C-shaped rings of  
cartilage in what tube between the lungs and larynx?

trachea

## Tri County League - Varsity Toss-up Round 2 Page 5

**41. Chemistry in the Fridge**

What is the usual name for the white colloid in your refrigerator consisting of proteins, lactose, fats, vitamins, minerals, and water?

milk

**42. History of Geometry**

Name the Greek geometrician who determined the value of pi to the third decimal place.

Archimedes

**43. Revolutions**

The Glorious Revolution of 1688 was so-named because it peacefully handed the crown to Mary II and William of ...

Orange

**44. Twain's Novels**

Who is the main character in the Mark Twain story that includes this line?

Now he found out a new thing, namely, that to promise not to do a thing is the surest way in the world to make a body want to go and do that very thing.

Tom Sawyer

**45. Riots**

In 1965, a highway patrolman stopped a black driver for speeding. A crowd gathered and tempers flared. Two days later, 34 people were dead and over 35 million dollars in damages had occurred. These riots were in what part of Los Angeles?

Watts

**46. Bird Anatomy**

What digestive organ of birds often contains some gravel and has a thick, muscular wall?

gizzard

**47. Deserts**

What South American desert is drier than the Sahara or central Australia?

Atacama

**48. Expeditions**

Who, in January of 1803, asked Congress for \$2500 for an expedition through the trans-Mississippi west "for the purpose of extending the foreign commerce of the U.S.?"

Thomas Jefferson

**49. Ancient Civilizations**

They lived on the coast of what later became Palestine. They were the merchants of the ancient world from 1400 B.C. To about 400 B.C. They sailed up the Nile and down the Red Sea and clear around Africa. Name them.

Phoenicians

**50. Book Research**

John Reed, a journalist, intellectual, and avowed Communist witnessed the Bolshevik revolution in 1917. The notes he took in Russia became were assembled into his book, "Ten Days that ..."

Shook the World

## Tri County League - Varsity Toss-up Round 2 Page 6

**51. Fantasies**

The plot of Lewis Carroll's "Through the Looking Glass" is built around moves in a game of ...

chess

**52. Patriots**

Richard Henry Lee was a member of which colony's most prominent family?

Virginia's

**53. Bays**

Name either Canadian province adjacent to the Bay of Fundy.

Nova Scotia, New Brunswick

**54. National Movements**

What movement initiated around the end of the 19th century had the goal of returning exiled Jewish people to their homeland?

Zionism

**55. Etymology**

American colonists borrowed these words from what language?

waffle, stoop, cruller, boss, cookie

Dutch

**56. Musicals**

In what Rodgers and Hammerstein musical does Emile DeBecque live on a Polynesian island and fall in love with an American nurse?

South Pacific

**57. Colorful Titles**

The missing word in this title of a novel by Zane Grey is also in the title of what work by Alice Walker?

Riders of the ---- Sage

The Color Purple

**58. Special Metals**

At low temperatures, certain materials lose all electrical resistance and become ...

superconductors

**59. Battles**

The Battle of Leyte Gulf was one of the most decisive in the Pacific theater of World War II. Leyte Gulf is immediately east of which Philippine island?

Leyte

**60. Academies**

The U.S. Coast Guard Academy is in what city in Connecticut?

New London

## Tri County League - Varsity Toss-up Round 2 Page 7

**61. Isosceles Triangles**

What is the smallest angle of an isosceles triangle given that the ratio of its base angle to a vertex angle is 1 to 3?

36 degrees

**62. Awards**

The Oscar is to Hollywood as what award is to Broadway?

Tony

**63. Quadrilaterals**

What must be true about the diagonals of a quadrilateral for it to be a parallelogram?

they must bisect each other

**64. Forms of Law**

Admiralty law treats of criminal and civil cases arising where?

on the high seas (on oceans)

**65. Exponents**

What is the cube of m to the eighth power?

m to the 24th power

**66. Fasteners**

Identify the screw with an axial hexagonal hole in its head AND turned by a hexagonal bar bent at a right angle.

Allen screw

**67. Ancient Literature**

This quote is from what work by Plato?  
The races of man will have no end of evil until rightly judging men rule.

The Republic

**68. Nevada**

The Comstock Lode was named for Henry Comstock who had a mining claim in the region. What nearby city was named for James Finney whose nickname was "Old Virginny"?

Virginia City

**69. Seeds**

A tiny hole in the testa of a seed is the ...

micropyle

**70. Electrolysis**

Depositing a thin layer of a metal on an object by means of electrolysis is called ...

electroplating



## Tri County League - Varsity Toss-up Round 2 Page 8

### 71. Tissues

It has a hard and relatively rigid matrix impregnated with inorganic salts such as calcium carbonate and calcium phosphate. Name this body tissue.

bone

### 72. Excuses

It takes Bill  $2m$  hours and Hillary  $m+1$  hours to work up a good excuse. Working together, they complete a doozie in 14 hours. What fractional part of the excuse did Hillary prepare?

$14/(m+1)$

### 73. River Cities

These cities are on the banks of what river?

Fort Thomas  
Covington  
Owensboro  
Henderson  
Paducah  
Louisville

Ohio River

### 74. Supreme Court Decisions

In the 1904, Supreme Court ruling on the "Gonzales v. Williams" case, it was affirmed that citizens of what island nation were not aliens and that admission to the continental United States could not be denied?

Puerto Rico

### 75. Parabolas

What is the equation of a parabola with its axis along the x-axis and the coordinates of (18,12)?

$$y^2 = (4/27)x \text{ or } y^2 = 8x$$

## Tri County League - Varsity Toss-up Round 3 Page 1

**1. Thunderstorms**

What noun describes the line of heavy thunderstorms that advances just ahead of a fast-moving cold front?

squall

**2. Bonds**

Ionic bonds are chemical bonds between two ions with what kind of charges?

opposite (unlike) charges

**3. Flowers**

What flower was named after the Swedish botanist Anders Dahl?

dahlia

**4. Modular Math**

To what number is 64 congruent in modulo 12?

4.

**5. Alcohol**

What kind of alcohol fuel is made from corn and sugar cane?

ethanol

**6. Inflammations**

Synovitis involves the inflammation of what membrane?

synovial membrane

**7. Rocks**

Rocks are aggregates of homogeneous substances called ...

minerals

**8. Land Masses**

During the ice ages, Beringia was a land bridge that was exposed between what two continents?

Asia, North America

**9. Combinations**

How many different combinations of four can be made from seven objects?

35

**10. Modifiers**

What is dangling in this example?

Smashed almost beyond recognition, I saw my bicycle lying on the driveway.

participle (participial phrase)

## Tri County League - Varsity Toss-up Round 3 Page 2

**11. Gears**

What kind of gears surround a sun gear?

planetary gears

**12. Vertebrate Taxonomy**

If the classes of vertebrates are arranged alphabetically, which is first?

Amphibia

**13. Volcanic Features**

An elongate surface fracture or crack from which lava erupts is called a ...

fissure (vent)

**14. Electricity Formulas**

Watts divided by volts equals ...

amperes

**15. Freedoms**

Which of the Four Freedoms elucidated by Franklin Roosevelt in his 1941 State of the Union address is missing from this list?

- freedom of speech and expression
- freedom from want
- freedom from fear

freedom of worship

**16. Economics**

What economic concept is suggested by this quote?

There are plenty of good 5-cent cigars in the country. The trouble is they cost a quarter. What this country really needs is a good 5-cent nickel.

inflation

**17. Measurements**

These are levels on what scale?

6. Felt by nearly everyone, many awakened. Some dishes and windows broken.
7. Few masonry structures remain standing. Bridges destroyed. Broad fissures in the ground.

Mercalli Scale

**18. Ship Engineering**

Partitions or transverse frames that strengthen airplane hulls are called ...

bulkheads

**19. Indian Wars**

The major engagements against the Indians in the Creek War were fought by Tennesseans under what general who later became U.S. president?

Andrew Jackson

**20. Computers**

What letters designate that part of a computer's memory with a permanent store of instructions that cannot be erased or altered by a user?

ROM

## Tri County League - Varsity Toss-up Round 3 Page 3

**21. Good Fences**

3437 miles is the length of the world's longest continuous fence. It is in what country?

Australia (Dingo Fence)

**22. Compacts**

In the Mayflower Compact, the Pilgrims swore allegiance to what king?

James I

**23. The Moon**

Streaks around lunar craters formed from ejected material are called ...

rays

**24. Pearl Buck**

Pearl Buck's novel, "The Big Wave," is about two boys who survive what kind of catastrophe and begin life anew?

tsunami

**25. American Dads**

What father of a Confederate general said this of George Washington?

First in war - first in peace - and first in the hearts of his countrymen.

Henry Lee

**26. Color Blindness**

The most common class of colorblindness is based on the perception of red, green, and what other color?

blue

**27. Andrew Jackson**

Complete this line by Andrew Jackson.

If we cannot at once make our government what it ought to be, we can at least take a stand against all new grants of exclusive privileges, against any prostitution of our government to the advancement of the few at the expense of the ...

many

**28. Light**

The release of thermal radiation and visible light from a body due to its temperature is called ...

incandescence

**29. Hormones**

Too much somatotropin causes gigantism and too little causes people to become midgets. This hormone is secreted by what gland?

pituitary

**30. Drawing Techniques**

Caricature is the primary technique of what kind of cartoonist?

political cartoonist

## Tri County League - Varsity Toss-up Round 3 Page 4

### 31. Algebraic Factoring

Factor  $4(x^2) - 3x + 20x - 15$ .

$(x+5)(4x-2)$

### 32. Suites

What suite by Gustav Holst includes these among its seven sections?

Mars - the Bringer of War

Venus - Bringer of Peace

Mercury - the Winged Messenger

Jupiter - Bringer of Jollity

The Planets

### 33. Fortunes

In what state did these future tycoons make their initial fortunes in the early 1850s?

John Studebaker making wheelbarrows

Collis Huntington marketing shovels

Leland Stanford selling groceries

California

### 34. Feline Spelling

What unique spelling did William Blake use for the big feline "in the forests of the night"?

tyger

### 35. Anatomical Adjectives

"Ophthalmic" pertains to what organ?

eye

### 36. Exploration Preparation

He summoned seamen, cartographers, astronomers, shipbuilders and instrument makers from all over Europe to engage in activities that would provide the foundation for the European exploration of the world. His efforts earned him the epithet "the Navigator." Name this son of a Portuguese king.

Prince Henry (Henry the Navigator)

### 37. Biological Adjectives

This adjective when used with respect to animals means "sedentary." With plants it means "without a stalk." What is the term?

sessile

### 38. Amendment Language

What term in the Second Amendment means transgressed, violated, or encroached?

infringed

### 39. Science Literature

Who in 1687 wrote this work?

Philosophiae Naturalis Principia Mathematica

Isaac Newton

### 40. Big Fishies

What plankton-eating fish can be more than 50 feet long and weigh about 2 tons?

whale shark

## Tri County League - Varsity Toss-up Round 3 Page 5

### 41. Rhyme Schemes

What is the rhyme scheme below?

It was many and many a year ago  
In a kingdom by the sea  
That a maiden there lived whom you may know  
By the name of Annabel Lee

abab

### 42. Homophones

Spell the term for a provincial governor in the Ottoman Empire or a ruler of the former kingdom of Tunis that is a homophone for a body of water enclosed by land but with a wide mouth opening to the sea.

bey

### 43. Energy

Name either energy source that cannot be traced to sunlight falling on the Earth.

nuclear, geothermal

### 44. Mass Media

In the course of a single hour, his Martians landed on Earth, constructed some deadly heat-ray machines, defeated the American Army, and occupied large sections of the country. Name this stage and radio actor of the 1930s who panicked thousands.

Orson Welles

### 45. Famous Brothers

Of what two brothers has it been said that one wrote fiction like a psychologist and the other wrote psychology like a novelist?

Henry and William James

### 46. Forms of Painting

Name the type of painting executed on wet plaster with pigments suspended in water so that the plaster absorbs the colors and the painting becomes part of the wall.

fresco

### 47. Equations

Solve this equation.

$$2x^2 + 8x = 0$$

$x = 0$  (or  $x = -4$ )

### 48. Legislative Helpers

What is the title of the assistant to the majority or minority floor leader in each house of Congress?

whip

### 49. Presidential Speeches

What president said this in a speech?

So I ask you tonight to join me and march along the road to the future, the road that leads to the Great Society.

Lyndon Johnson

### 50. From Bad to Worse

This is about what law?

This 1854 bill to organize western territories became part of the political whirlwind of sectionalism and railroad building, splitting the two major political parties and worsening North-South relations.

Kansas-Nebraska Act

## Tri County League - Varsity Toss-up Round 3 Page 6

### 51. Anniversaries

In 1984, President Reagan joined with representatives from Great Britain and Canada in ceremonies in what region in France where Allied armies had landed forty years earlier?

Normandy

### 52. Ptarmigan

What happens to the appearance of a rock ptarmigan as winter approaches?

plumage turns white

### 53. Neurons

What nerve runs from the spinal cord down the back of each thigh?

sciatic nerve

### 54. Algebraic Proportionals

If B is to D as C is to X, then X is ...

(CD)/B

### 55. Dickens

Name the novel by Charles Dickens in which Miss Havisham is deserted on her wedding day and Pip helps an escaped prisoner hiding in the marsh.

Great Expectations

### 56. Giving Up Rights

A voluntary, intentional surrender of any right or privilege is called a ...

waiver

### 57. Classicism

The most widely accepted meaning of "classical" indicates what two ancient civilizations?

Greece, Rome

### 58. Commanders

Who commanded Operation Overlord?

Dwight Eisenhower

### 59. Economics Literature

This is the opening line of what classic Scottish work on economics?

The greatest improvement in the productive powers of labor, and the greater part of the skill, dexterity, and judgment with which it is directed, or applied, seem to have been the effects of the division of labor.

Adam Smith

### 60. Acronyms

What is the acronym for "sound navigation and ranging"?

sonar

## Tri County League - Varsity Toss-up Round 3 Page 7

**61. Island Nations**

Name the archipelago straddling the equator in Southeast Asia consisting of some 17,000 islands.

Indonesia

**62. The Earth's Interior**

What region within the Earth is believed responsible for the P-wave shadow zone?

core

**63. Neurons**

What part of a neuron can be more than three feet long?

axon

**64. Justice**

From a literary point of view, rewarding the good and punishing the bad is what kind of justice?

poetic justice

**65. Legends**

In his last moments of life, who shot an arrow into the distance and asked to be buried with his bow wherever it landed?

Robin Hood

**66. Machines**

A perpetual motion machine would require an efficiency of at least what percent?

100%

**67. Asian Geography**

The Crimea borders what sea?

Black Sea (or Sea of Azov)

**68. Resurrections**

In 1902, a British author was forced by public demand to resurrect what detective who had apparently been killed some years earlier when he fell into a mountain crevasse with his arch-criminal, Professor Moriarty?

Sherlock Holmes

**69. Imaginary Planets**

This is from what science fiction novel?

"One of your factory crawlers," Kynes said.

"It's on the surface and that means it's on spice. The cloud is vented sand being expelled after the spice has been centrifugally removed."

Dune

**70. Governors**

Name the New York governor of the 1790s who had formerly been chief justice of the United States.

John Jay



## Tri County League - Varsity Toss-up Round 3 Page 8

### 71. Sculptures

The world's largest sculpture is being carved from a mountain of granite in the Black Hills of South Dakota. Still decades from completion, it will memorialize what Oglala Sioux war chief?

Crazy Horse

### 72. Horror Flicks

In 1922, the horror movie "Nosferatu" was produced, telling the terrible tale of a vampire that feeds on human blood. This was the first movie version of an 1897 novel written by whom?

Bram Stoker

### 73. Revivals

The religious revivalist movement that swept through the American colonies from the 1730s to the 1750s was called the Great ...

Awakening

### 74. Human Circulation

In the word "cardiovascular," "cardio," means the heart. What does "vascular" mean?

vessel

### 75. Colonialism

What was the collective name for American-born Europeans in Spanish America?

Creole

## Tri County League - Varsity Toss-up Round 4 Page 1

**1. Mental States**

Dysphoria is an emotional state characterized by depression, restlessness, and anxiety. What rhyming term indicates the opposite of this condition?

euphoria

**2. Industrialists**

Willy Messerschmitt designed and manufactured aircraft for what branch of the German military?

Luftwaffe

**3. Ocean Depths**

Until the 1900s, charting ocean depths was done with a length of cable attached to a lead weight. The cable was marked every 6 feet. This distance between marks equals what unit of measurement?

fathom

**4. Vocabulary**

What single word can have these meanings?  
-a filming technique  
-a Greek mythical character  
-a metal dish

pan

**5. Glass**

After glass objects are formed, they are subjected to a high temperature and then slowly cooled. This balances the tensions on the inside and outside of the object producing glass of great toughness. Name this process.

annealing (tempering)

**6. Constitutional Factions**

The Drys and the Wets were proponents and opponents of what amendment?

18th Amendment

**7. Vertebrates**

The embryos of higher vertebrates have a notochord. What develops from this structure?

spinal (vertebral) column

**8. Capital Losses**

The IRS limits capital losses to a total deduction of \$3000 each year. So, if you lose \$7000 this year selling out an investment, how much of that loss must be carried forward?

\$4000

**9. Literature**

A person who judges the merits and defects in a literary work is a ...

critic

**10. Horses**

Founder, an affliction of horses, resulting from overfeeding, affects what part of a horse?

hoofs

## Tri County League - Varsity Toss-up Round 4 Page 2

**11. Science Fiction**

Two volumes, "The Far Ends of Time and Earth" and "Prisoners of the Stars," are collections of whose fiction?

Isaac Asimov's

**12. Chemical Elements**

In 1811, what halogen was discovered by Bernard Courtois in the ashes of burnt seaweed?

iodine

**13. Monsters**

What is the Greek term for an imaginary monster made of combinations of animals?

Chimera

**14. Labor Rulings**

In 1939, the Supreme Court ruled that what kind of strikes are illegal seizures of property?

sit-down strikes

**15. Executive Officers**

The U.S. solicitor general is an assistant to what officer in the Department of Justice?

attorney general

**16. Spanish**

Translate this line from "Don Quixote."  
La mejor salsa del mundo es la hambre.

Hunger is the best sauce in the world.

**17. Nonfiction**

F.F. Van de Water's "Reluctant Rebel" and Daniel Thompson's "The Green Mountain Boys" are about what man who led colonial volunteers against Fort Ticonderoga during the American Revolution?

Ethan Allen

**18. Worker Shifts**

What labor shift occurs between the day shift and the graveyard shift?

swing shift

**19. Special Armies**

What army was disbanded in 1894 when its three leaders, Carl Browne, Christopher Columbus Jones, and Jacob Coxey were arrested for trespassing on the Capitol grounds?

Coxey's Army

**20. The Liberty Bell**

A person wanting to see the Liberty Bell would have to travel to what state?

Pennsylvania

## Tri County League - Varsity Toss-up Round 4 Page 3

### 21. Russian Rulers

What name completes this series?

Peter the Great, Catherine I, Peter III,  
Catherine the Great, Paul, Alexander I,  
Nicholas I, Alexander II, Alexander III, ...

Nicholas II

### 22. Fictional Nations

In "1984," which is last in a list of the three  
superstates?

Oceania

### 23. Sequels

The novel, "Scarlett," by Alexandra Ripley is a modern  
sequel to what other work written by another author in  
the 1930s?

Gone with the Wind

### 24. Nuclear War

What is the compound word for nuclear weapons  
capacity in excess of that needed to destroy an  
enemy?

overkill

### 25. Historians

Halicarnassus was a Greek city in Asia Minor. It was  
the birthplace of what great historian of antiquity?

Herodotus

### 26. Warfare Conduct

Name the agreement first formulated in Switzerland in  
1864 which established rules for wartime treatment of  
prisoners and of the sick or wounded.

Geneva Convention

### 27. Logical Fallacies

Consider this argument.

All Venezuelans are humans.

All Vietnamese are humans.

Therefore, all Venezuelans are Vietnamese.

This illustrates the logical fallacy of the undistributed  
...

middle

### 28. Bodies of Water

What sea is between Borneo and Hong Kong?

South China Sea

### 29. Laws of Physics

Which of Newton's laws most directly relates to how  
rocket engines are able to lift missiles?

3rd law (action and reaction)

### 30. Weather Lore

What is the last word in this old proverb about  
weather?

Rain before seven, clear before ...

eleven

## Tri County League - Varsity Toss-up Round 4 Page 4

**31. Colonial Conflicts**

The Maori Wars of the 19th century were between the natives of New Zealand and settlers from ...

Great Britain (England)

**32. East Coast Islands**

In what state is the island located that the Dutch originally called Conyne Eylandt?

New York

**33. Africa**

Nigeria is what compass direction from Ghana?

east

**34. Constitutional Amendments**

What amendment reads as follows?

All persons born or naturalized in the United States and subject to the jurisdiction thereof are citizens of the United States and of the state wherein they reside.

14th amendment

**35. Forest Biomes**

The great boreal forests of Europe and Asia illustrate what biome?

taiga

**36. Hearing Problems**

Otitis media is an acute infection of what part of the ear?

middle ear

**37. Misdeeds upon Misdeeds**

Often regarded as even more scandalous than the original offence is a conscious attempt to conceal evidence of the wrongdoing with what is called a ...

cover up

**38. Russian History**

When Lenin became head of the new Communist government in Russia in 1917, one of his first acts was to make peace with what country?

Germany

**39. Vowel Mammals**

The name of what Madagascar lemur consists only of vowels?

aye-aye

**40. Big Sculptures**

The world's largest relief sculpture depicting a scene of Confederate Civil War leaders on horseback is on what mountain in Georgia?

Stone Mountain

## Tri County League - Varsity Toss-up Round 4 Page 5

### 41. History of Biology

To whom does the pronoun in this refer?

In 1869, he discovered a system by which characters are transmitted from adult to offspring. He had, in short, discovered what Darwin only suspected, namely, the mechanism of heritable variation.

Gregor Mendel

### 42. Dynamite

Dynamite consists of an absorbent material and what explosive nitrogen compound?

nitroglycerin

### 43. Argument

The truth or falsity of an idea is determined not by where it came from, but by the evidence supporting it. To argue that a claim is true or false on the basis of its origin is to commit what fallacy?

genetic fallacy

### 44. Solids

There are six plane surfaces on what geometric solid?

hexahedron

### 45. Young Arthropods

Resembling the adult but smaller and lacking fully developed wings, an immature insect is called a ...

nymph

### 46. Mideast Clashes

In 2002, Israeli troops exchanged weeks of gunfire with more than 200 gunman holed up in what Bethlehem church regarded as the birthplace of Jesus?

Church of the Nativity

### 47. Riverside States

Name either of the two states directly across the Mississippi River from Iowa.

Wisconsin, Illinois

### 48. Mineral Properties

Name the property of some minerals to absorb ultraviolet radiation and convert that energy into visible light.

fluorescence (or phosphorescence)

### 49. Occupations

Someone who drives cattle, pigs, or sheep to market is called a ...

drover

### 50. Terrorism

What was the nationality of the four suicide bombers responsible for the carnage in 2005 in the subways and on a bus in London?

British (English)

## Tri County League - Varsity Toss-up Round 4 Page 6

### 51. Displacement

You walk 3 kilometers west and then 7 kilometers north. To the nearest tenth, what is your displacement from the starting point?

7.6 kilometers

### 52. Imperialism

An 18th-century merchant ship landing in the Portuguese colony of Goa would have just crossed what body of water?

Arabian Sea

### 53. Gloom

What word meaning "sadness" or "depression" completes this verse?

Hence, all you vain delights,  
As short as are the nights  
Wherein you spend your folly!  
There's naught in this life sweet  
But only ...

melancholy

### 54. Ground Water

Above the water table, pores in the rock contain a great deal of air and some discontinuous pockets of water held by capillarity. This area above the zone of saturation is called the zone of ...

aeration

### 55. Chinese History

When Mao declared the founding of the people's republic in 1949, a flood of Chinese refugees fled to what British colony?

Hong Kong

### 56. Mythical Characters

What leader of the Greeks in the Trojan War shot an arrow through the holes in twelve axe handles?

Odysseus

### 57. Logic

What is the converse of this conditional?

If the bug is long, then its legs are myriad.

If its legs are myriad, then the bug is long.

### 58. Science History

What Dutchman was first to record these kinds of observations?

In the water were many little animalcules, whereof some were roundish, while others, a bit bigger, consisted of an oval. On these last, I saw two little legs near the head and two little fins at the hindmost end.

Anton van Leeuwenhoek

### 59. Geologic Time

An age is an interval of geological time that indicates when a body of rock was formed. A group of ages forms an ...

epoch

### 60. Coefficients

What is the numerical coefficient of  $2y/5$ ?

## Tri County League - Varsity Toss-up Round 4 Page 7

### 61. Medians

The medians of a triangle meet at a point which is what fraction of the distance from any vertex to the midpoint of the opposite side?

2/3

### 62. Flowers

Nectar is a sweet, sugary liquid secreted by flowers from what glands at the base of flowers' corollas and petals?

nectaries

### 63. Poetic Classifications

Classify this poem based on its number of lines?

The hippopotamus's day  
Is passed in sleep. At night he hunts.  
God works in a mysterious way -  
The Church can sleep and feed at once.

quatrain

### 64. Light Winds

The doldrums lie generally along what line of latitude?

0 degrees (equator)

### 65. Latin Proverbs

How is this Latin proverb expressed in English?

Mater artium necessitas.

Necessity is the mother of invention.

### 66. Sunken Ships

Made with the wood of 1000 oak trees more than 300 years ago, the warship Vasa sank on its maiden voyage in full view of the spectators who had come to see her off. What Scandinavian nation built this ship?

Sweden

### 67. Religion

In the 16th century, the Indian religious teacher Guru Nanak had a vision. On the basis of that, he combined elements of Hinduism and Islam into what new religion?

Sikhism

### 68. Diameters

In a circle, one radius equals  $3n - 10$  feet. Another radius equals  $n + 2$  feet. In feet, what is the length of the diameter?

16 feet

### 69. Taste

Receptors for which two taste sensations are toward the front of the tongue?

sweet, salty

### 70. Technological Blunders

This is about what device?

It was discovered in June of 1990 that there was a spherical aberration in one of its mirrors that probably could not be repaired until a 1993 shuttle mission.

Hubble Space Telescope



## Tri County League - Varsity Toss-up Round 4 Page 8

**71. Spices**

What pungent condiment popular in India is made from a blend of cumin, coriander, fenugreek, pepper, turmeric, and other spices?

curry (curry powder)

**72. Former Political Parties**

The Populist Party of the late 1800s was largely formed from members of farmer's organizations. Name those organizations.

granges

**73. Moons**

The largest moon in our solar system is ...

Ganymede

**74. North American Confrontations**

In 1664, English warships sailed into the harbor of New Amsterdam and forced what Dutch governor to relinquish the settlement?

Peter Stuyvesant

**75. Biological Taxis**

Taxis in biology is the movement of an organism in response to an orienting influence. Such a movement in response to light is called ...

phototaxis

# Tri County League - Varsity Toss-up Round 5 Page 1

**1. Fields of Science**

The discipline that studies the factors determining the causes, frequencies, and distributions of diseases in populations is ...

epidemiology

**2. Standards**

In 1792, at Hamilton's encouragement, a bi-metallic standard was adopted in the U.S. This standard was based on what two metals?

gold, silver

**3. Officeholders**

These people have held what office in what city?  
Abraham Beame, Edward Koch, David Dinkins,  
Rudolph Giuliani, Michael Bloomberg

mayor of New York City

**4. Poetic Meter**

What meter is used in these lines?  
Just knock three times and whisper low  
That you and I were sent by Joe

tetrameter

**5. Appropriations**

When Congress does not complete its appropriations work by the beginning of the next fiscal year, to keep federal agencies operating in the interim, it may pass what kind of appropriation?

continuing appropriation

**6. Irrational Fears**

Phobophobia is the fear of ...

fear

**7. Inspirations**

Robert Louis Stevenson cried out in terror one night and was awakened by his wife. He said, "Why did you wake me? I was dreaming a fine bogey tale." He then wrote nonstop for three days to produce what story?

The Strange Case of Dr. Jekyll and Mr. Hyde

**8. Lyrics**

What is the first line in Lydia Maria Child's poem, "The Boy's Thanksgiving Day"?

Over the river and through the woods

**9. Bones**

The outer and more slender of the two bones of the shin is the ...

fibula

**10. History of Physics**

Isaac Newton is associated with three laws of ...

motion

## Tri County League - Varsity Toss-up Round 5 Page 2

### 11. Plant Growth

Most plants grow from the tip, but herbivores like bison and wildebeests are assured of a continued food supply because what category of plants grows from the base of the stems?

grasses

### 12. Geographical Namesakes

"Moor" comes from the Mauri, a people in northwestern Africa. What African nation was named after them?

Mauritania

### 13. Ancient Time Periods

Eight Olympiads encompass how many years?

32

### 14. Battles

What battle marked the farthest northern advance of Confederate forces during the Civil War?

Gettysburg

### 15. Nautical Poetry

This is from what poem by Oliver Wendell Holmes?

Oh better that her shattered hulk  
Should sink beneath the wave;  
Her thunders shook the mighty deep,  
And there should be her grave.

Old Ironsides

### 16. Electrical Phenomena

The electrical discharges seen about the ship's masts in "Moby Dick" is called ...

St. Elmo's fire (static electricity)

### 17. Communism

Immediately following the revolution in Russia there was a panic in the U.S. that communism would continue to spread in this country. This was the ---- scare.

Red

### 18. Drama

People may experience the same fears or joys of the characters when reading novels or watching plays. This mental entering into the feelings of a character is called ...

empathy

### 19. Quicksand

Quicksand occurs when sand grains are separated by ...

water

### 20. Animal Husbandry

What does a polled Hereford lack?

horns

## Tri County League - Varsity Toss-up Round 5 Page 3

### 21. Expressions

What kind of overused expressions are illustrated in this passage?

I am proud to say that, when the chips were down, Americans did not turn tail and knuckle under. Instead, when the fat was in the fire, they stepped up to the plate and cut the mustard.

idioms (cliches)

### 22. Palindromes

What place name completes this palindrome?

Anne, I vote more cars race Rome to ...

Vienna

### 23. Novels

David Guterson begins what novel with this?

The accused man, Kabuo Miyamoto, sat proudly upright with a rigid grace, his palms placed softly on the defendant's table - the posture of a man who has detached himself insofar as this is possible at his own trial.

Snow Falling on Cedars

### 24. Events in the Caribbean

In 1964, in reprisal for the U.S. seizure of some fishing boats off Florida, Cuba cut off the water supply to what U.S. naval base?

Guantanamo

### 25. Work Problems

It takes 9 people 15 days to complete a job. How long will it take if just 5 people work?

27 days

### 26. Musicians

What musical director for the U.S. Army during the Spanish-American War and World War I wrote the autobiography entitled "Marching On"?

John Philip Sousa

### 27. Mythical Women

A woman who robbed travelers was turned into a dangerous whirlpool on the coast of Sicily opposite a six-headed monster called Scylla. Who was the woman?

Charybdis

### 28. Greek Literary Techniques

Name the technique used in ancient Greek drama in which a god comes down out of nowhere to resolve a conflict or to solve a problem.

deus ex machina (god from the machine)

### 29. Blood Conditions

What blood condition increases susceptibility to infection and precedes diabetic coma?

hyperglycemia

### 30. Etymology

The term "derringer" comes from Henry Deringer and the word "mausoleum" comes from King Mausolus. Such words that originate from the names of people are called ...

eponyms

## Tri County League - Varsity Toss-up Round 5 Page 4

**31. Etiquette**

Who was born in Baltimore in 1872 and grew up to become America's foremost expert and writer on the topic of etiquette?

Emily Post

**32. Space Weaving**

The name of an American spacecraft shares what name with the instrument with which a weaver passes the thread?

shuttle

**33. Island Poetry**

What is the ordinary name for the island in this couplet?

Nor one feeling of vengeance presume to defile  
The cause or the men of the Emerald Isle.

Ireland

**34. Smuggling**

Smugglers bringing products into the country are trying to evade what kind of tax on foreign goods?

tariffs

**35. Capitals**

Kiev, capital of the Ukraine, is on the bank of what major river?

Dnieper

**36. Root Words**

What is the meaning of the root word in these examples?

sauropod  
ichthyosaur  
dinosaur

lizard

**37. Triangle Angles**

The interior angles in a triangle are in the ratio of 3 to 4 to 5. What is the measure of the largest exterior angle?

135 degrees

**38. Commanders**

Captain Benteen and Major Reno served under what general at the Little Bighorn?

George Custer

**39. Politics**

Armchair strategists who enjoy the advantage of understanding the significance of events after they have occurred have what kind of sight?

hindsight

**40. Trigonometry**

On an alphabetical list, which trigonometric ratio is first?

cosine

## Tri County League - Varsity Toss-up Round 5 Page 5

### 41. Monasteries

Thomas Aquinas was educated in the 13th century at what monastery that became a German stronghold in central Italy in the 1940s?

Monte Cassino

### 42. Islands

The islands of St. John, St. Croix, and St. Thomas comprise much of what U.S. possession?

Virgin Islands

### 43. DNA Studies

Geneticists studying the DNA in mitochondria claim to have traced the entire human family tree back to a single woman whom they named ...

Eve

### 44. Fields of Earth Science

The study of the properties, circulation, and distribution of continental water from the time of precipitation until it returns to the atmosphere is called ...

hydrology

### 45. Musicals

According to a song in "South Pacific," what adjective describes the type of evening during which you may see a stranger across a crowded room?

enchanted

### 46. U.S. Expansion

On an alphabetical list of states including land ceded to the U.S. in the Treaty of Guadalupe Hidalgo, which is last?

Utah

### 47. Short Stories

What story begins with this dialogue?  
"Off there to the right - somewhere - is a large island," said Whitney.  
"It's rather a mystery."  
"What island is it?" Rainsford asked.

The Most Dangerous Game

### 48. Hydrology

Discharge, the volume of water passing a given location in a given period of time, is usually expressed using what measurement unit?

cubic feet (meters) per second (cfs, cms)

### 49. Constitutional Protections

Which amendment guarantees that a person's life, liberty, or property shall not be taken from him without a court trial?

5th amendment

### 50. Horror Stories

Madeline and her twin, Roderick, were the only surviving members of a certain family according to Poe. What was the family name?

Usher

## Tri County League - Varsity Toss-up Round 5 Page 6

### 51. Figures of Speech

What literary device is in these phrases?  
beloved enemy  
cruel kindness

oxymoron

### 52. Vitamins

The skin is able to synthesize what vitamin when it is exposed to sunlight?

vitamin D

### 53. Biological Compounds

They function in energy storage and structural support in plants and animals. Name these carbohydrates containing more than 10 monosaccharides.

polysaccharides

### 54. Clouds

What cloud classification means "feathery"?

cirrus

### 55. Scientist Biographies

This biography is about what famed Frenchman?  
The Chemist Who Lost His Head

Antoine Lavoisier

### 56. Exponential Division

Divide P to the tenth power by P squared.

P to the 8th

### 57. Aluminum

Aluminum has an atomic number of 13 and 14 neutrons in its nucleus. Its atomic weight is ...

27

### 58. VPs

Because he had come in second in the presidential election, who became Thomas Jefferson's vice president?

Aaron Burr

### 59. Astronomical Measurement

How many degrees apart are two heavenly bodies in opposition?

180

### 60. Wilde Stories

At the end of what story by Oscar Wilde do servants find a bloated ugly corpse with a knife in its chest next to a painting of the deceased as he had been 18 years earlier?

The Picture of Dorian Gray

## Tri County League - Varsity Toss-up Round 5 Page 7

### 61. Forms of Government

Plato favored a government of the best and wisest men ruling in the interest of the entire state. This form of government is an ...

aristocracy

### 62. Literary Styles

Hellenism indicates the assimilation of the thought and styles of what ancient civilization?

Greek

### 63. Conics

This equation describes which conic section?

$$4(x \text{ squared}) - y \text{ squared} = 36$$

hyperbola

### 64. Genres

Literary works that criticize human misconduct and ridicule vices, stupidities, follies, and frailties are collectively known as ...

satires

### 65. Operas

Translate this opera title by Pierre Boulez.

Le Marteau sans maitre

### 66. Currents

As the North Equatorial Current in the Atlantic Ocean moves westward, it is deflected by the continental land mass and the Coriolis effect. Name this warm current which turns clockwise in the Northern Hemisphere.

Gulf Stream

### 67. Sound

Musical tones are sounds produced by matter that vibrates in a regular and orderly fashion. Sound waves produced by irregular vibrations in matter are called ...

noise

### 68. Citizenship

How old must an alien be to apply for citizenship in the U.S.?

18

### 69. Generals

When James Polk delivered his war message to Congress in 1846, what general took command of U.S. troops that captured Tampico and occupied El Paso?

Winfield Scott

### 70. Wars

The Spanish Civil War was a battle mainly between the two opposing ideologies of fascism and ...



## Tri County League - Varsity Toss-up Round 5 Page 8

### 71. Essays

Eighty-five essays comprise "The Federalist." At least fifty-one of these papers were written by whom?

Alexander Hamilton

### 72. Aviation

What is the collective name for the electronic systems and equipment on aircraft?

avionics

### 73. Big Rivers

What river flows 315 miles southward from the Adirondack Mountains to New York City?

Hudson River

### 74. Science Fiction

In what work by Kurt Vonnegut does a religious prophet preach comfortable untruths called "foma" to members of corporations and other "granfalloon"?

Cat's Cradle

### 75. Mixtures

The separation of components in a solution by passing it across a semipermeable membrane is called

...

dialysis

## Tri County League - Varsity Toss-up Round 6 Page 1

**1. Magnetism**

What is the value of the constant used in the equation when applying Coulomb's law to calculate the attractive force between two charged objects?

9 times (10 to the ninth power)

**2. Ecosystems**

Name the most populous and diverse of all continental ecosystems.

tropical rain forest

**3. Wartime Leadership**

During World War II, Churchill, Roosevelt, and Stalin were known as the Big ...

Three

**4. Eastern European History**

After declaring its independence in 1991, what former Yugoslav republic was quickly embroiled in a civil war between the Croat majority and the ethnic Serb irregulars backed by the Yugoslav army?

Croatia

**5. Aerodynamics**

The sudden and sharp increase in aerodynamic drag experienced by aircraft as they approach the speed of sound is called the ...

sound barrier

**6. Rivers**

The Rhone River begins at the Rhone Glacier, high in what mountain range?

Alps (Swiss Alps)

**7. Raids**

This is about what facility?

This Paris arms depot and prison was attacked in the search for arms on July 14, 1789, and the prisoners inside were freed.

Bastille

**8. Science Fiction**

Some science fiction authors speculate that wormholes could lead from one universe to another, and that a black hole in our universe would be what kind of hole at its other end?

white hole

**9. Heat**

The product of a body's mass and its specific heat defines heat ...

capacity

**10. Allusions**

What four-word phrase attributed to Sherlock Holmes became a popular opening to any explanation?

Elementary my dear Watson

## Tri County League - Varsity Toss-up Round 6 Page 2

### 11. Injuries

These are adjectives relating to what kind of injury?

blow-out  
depressed  
direct  
epiphyseal  
hairline  
stress

### 16. Ports

It is the capital of the Sind Province and the largest city in Pakistan. Name this seaport city.

### 12. Phrases

This quote by Robert Byrne begins with what kind of phrase?

Doing a thing well is often a waste of time.

fracture

### 17. Biblical Blunders

What name should have been used below?

David fought with the Finkelsteins, a people who lived during biblical times, and killed Goliath.

Karachi

### 13. Triglycerides

What obvious condition and chronic medical problem is characteristic of people whose bodies contain an excess of triglycerides?

gerund phrase

### 18. Albinism

Albinism is caused by the absence of what pigment in the skin?

Philistines

### 14. Soils

What two layers in a soil profile make up the solum?

obesity

### 19. Rights

Name any two of the four amendments that provide procedural guarantees for those accused of crimes.

melanin

### 15. Africa

The Horn of Africa includes Ethiopia and what nation to its east?

A and B horizons

### 20. Slopes

What is the product of the slopes of two perpendicular lines?

4th, 5th, 6th, 8th

## Tri County League - Varsity Toss-up Round 6 Page 3

**21. Clouds**

The top of a cloud layer is called the cloud ...

deck

**22. Tense**

Restate this line in the future perfect progressive form.  
I osculate.

I will (shall) have been osculating.

**23. Struggles**

According to Gause's competitive exclusion principle, in a given community two species cannot simultaneously occupy the same ...

niche

**24. Composers**

This is about what composer?

Under the pressure of his nearing isolation from the world of sound he voiced his despair in the "Heiligenstadt Testament" and became increasingly eccentric, suspicious, and insulting.

Ludwig van Beethoven

**25. Shellings**

Name the largest city shelled by the Bosnian Serbs in 1995.

Sarajevo

**26. Ancient Enemies**

When Xerxes ascended to the throne, what people were his chief enemy?

Greeks

**27. Statistics**

To the nearest whole number, what is the mean of these scores in a frequency table?

Frequency	Scores
3	(90)
5	(92)
2	(95)
3	(96)

93

**28. Bilateral Symmetry**

In bilaterally symmetrical organisms, body regions can be labeled with respect to their position. What is the name for the front region?

anterior

**29. Appointments**

What U.S. president made the greatest number of appointments to the U.S. Supreme Court?

George Washington

**30. Diseases**

This disease has been virtually eliminated from the U.S. Nevertheless it is still recommended that children should be immunized against it. Name this viral disease that causes paralysis.

polio

## Tri County League - Varsity Toss-up Round 6 Page 4

### 31. Composer Quotations

What classical composer said this?

For dramatic effectiveness, it seems to me that the best material I have yet put to music is "Rigoletto." It has the most powerful situations, variety, vitality, and pathos.

Giuseppe Verdi

### 32. Waves

High-intensity sound waves caused by explosions, lightning, or the supersonic flight of airplanes are called ...

shock waves

### 33. Astronomical Theories

What theory states that the universe is homogeneous in space and time?

steady-state theory

### 34. Dissociative Disorders

Fred, in an amnesiac state, wandered to another city and set up a new life. Ten years later, the amnesia reversed and he awakened in a strange place with a full memory of his original identity but no memory about the previous decade. Name this severe dissociative disorder.

fugue

### 35. Mineral Compounds

Sphalerite and galena are sulfides. Anhydrite and gypsum are sulfates. Calcite and dolomite are carbonates. What are hematite and magnetite?

oxides

### 36. Under the Curve

What is the area under the curve defined below?

$y = 3 \text{ times } (x \text{ squared}) \text{ from } x = 2 \text{ to } x = 5$

117

### 37. Space Projects

In 2005, NASA directed a spacecraft to plunge into a comet in an effort to see a piece of the solar system that has not changed in four billion years. The probe's name was Deep ...

Impact

### 38. Great Lake Anagrams

What word can be made from the first letter of the four Great Lakes shared by the U.S. and Canada?

shoe (hose, hoes)

### 39. Eyes

What type of eyes consists of many ommatidia, each of them a similar lens forming a facet of the cornea of the entire eye?

compound eye

### 40. European Rivers

What river is adjacent to the Louvre and the Notre Dame cathedral?

Seine

## Tri County League - Varsity Toss-up Round 6 Page 5

### 41. Civil War Leaders

What northern general commanded victories at these sites?

Fort Henry  
Fort Donelson  
Shiloh  
Vicksburg  
Chattanooga

Ulysses Grant

### 42. Wartime Quotes

Charles Stanton said, upon setting foot on French soil with advance units of the American Expeditionary Forces in 1917, "Lafayette, we are here." At the time, Mr. Stanton was an aide to what general?

John Pershing

### 43. Poetry

A series of realistic, candid epitaphs which reveal the secret lives of some 250 people buried in the cemetery of a small Midwestern town is presented in what work by Edgar Lee Masters?

Spoon River Anthology

### 44. Comets

A comet consists of a small, irregularly-shaped nucleus and an extended atmosphere called the ...

coma

### 45. Shared Birthdays

Abraham Lincoln was born on February 12, 1809. What British naturalist who revolutionized the study of biology was born on the same day?

Charles Darwin

### 46. Flowering Plants

In dioecious plants such as the kiwi, male and female flowers grow on separate plants. What category of plants have male and female organs in different flowers on the same plant?

monoecious plants

### 47. Waterways

What waterway passes near Cape Cod, New York City, Norfolk, Charleston, Savannah, Mobile, and New Orleans?

Intracoastal Waterway

### 48. Discharge

A stream with an average velocity of .5 feet per second and a cross-sectional area of 20 square feet has a discharge of how many cubic feet per second?

10

### 49. Alkanes

Name either of the two alkanes most commonly used as bottled gas fuel.

propane, butane

### 50. Anthropology

In 1722, a Dutch explorer found a Polynesian island whose inhabitants had sculpted compressed volcanic ash into monumental heads up to 36 feet tall and weighing fifty tons, which they had somehow moved into position to stare vacantly out to sea. Name the island.

Easter Island

## Tri County League - Varsity Toss-up Round 6 Page 6

**51. Medieval Commerce**

An association of merchants that had the sole right to trade in a medieval town was called a ...

guild

**52. Ancient Greece**

Sparta and Athens were two of the four largest Greek city-states around 500 B.C. Name either of the other two.

Thebes, Corinth

**53. 19th-Century Nonfiction**

Popular in the North and banned in the South, Hinton Helper's influential book published in 1857 which sought to statistically prove that slavery had impoverished broad sections of Southern whites was entitled "The Impending ..."

Crisis

**54. Graphing**

In which quadrant of a graph does the point -2 and -3 lie?

quadrant III

**55. Rivers**

The Yellowstone River flows out of the national park into what state?

Montana

**56. Short Stories**

Name the tale by Poe which takes place on Sullivan's Island about a cipher related to Captain Kidd's treasure.

The Gold Bug

**57. Ships**

In what harbor was the battleship Maine last seen afloat?

Havana Harbor

**58. Sentence Structure**

Classify this statement by H.L. Mencken according to its structure.

The difference between a moral man and a man of honor is that the latter regrets a discreditable act, even when it has worked and he has not been caught.

complex

**59. Planes**

How many straight lines are determined by four points in a plane no three of which lie in a straight line?

6.

**60. China**

Two struggles were going on in China in the 1930s. One was against the Japanese invaders. The other was between the Nationalists and the Communists. Who were the two leaders of these opposing Chinese forces?

Chiang Kai-shek, Mao Zedong

## Tri County League - Varsity Toss-up Round 6 Page 7

### 61. Art Forms

Name the traditional Javanese method of dyeing textiles using wax to resist the dye, thus leaving areas of the cloth in their original color.

batik

### 62. Discount Problems

Successive single discounts of 10% and 10% equal a single discount of what percentage?

19%

### 63. History of Law

Persons who have been expelled from a country by authoritative decree have been ...

banished (exiled)

### 64. Plate Tectonics

The Cascadia subduction zone is on the eastern flank of what plate?

Juan de Fuca plate

### 65. Metals

If you alphabetize the heavy metals, which is last?

zinc

### 66. Ancient Cities

Name the most important prehistoric Minoan settlement on Crete.

Knossos

### 67. Literary Associations

This passage by Mitch Leigh is based on a work by what European author?

One man scorned and covered with scars  
still strove with his last ounce of courage  
to reach the unreachable stars;  
and the world will be better for this.

Miguel Cervantes

### 68. Chemical Compounds

An ester or salt of phosphoric acid is called a ...

phosphate

### 69. Ancient Geology

Antarctica, Australia, India, Africa, and South America were connected to one another until the late Jurassic Period, when what phenomenon began to rift them apart?

continental drift

### 70. Parts of Speech

Identify the adverbs in this line about tact.

The most difficult thing in the world is to know  
how to do a thing and to watch somebody else  
doing it wrong, without comment.

most, how, wrong



## Tri County League - Varsity Toss-up Round 6 Page 8

### 71. Erosion

At the base of waterfalls or in rapids, bubbles of water vapor form in the water. If a bubble is in contact with the stream bed at the moment it collapses, an extremely strong impact is produced. This erosive process is called ...

cavitation

### 72. Rectangle Area

In a rectangle 6 feet by 18 feet, what is the width of another rectangle with the same area and a length of 12 feet?

9 feet

### 73. Heartbeat Irregularity

Arrhythmias include a slow heart rate of less than 60 beats per minute called bradycardia and a rapid heart rate of more than 100 beats per minute called ...

tachycardia

### 74. Sultans

In 1517, the Ottoman Turks captured Egypt and Syria. Turkish armies terrorized Europe when they overran Hungary and attacked Vienna. Their leader was known as "Suleiman the ..."

Magnificent

### 75. Dictators

This physician assumed power in Haiti in 1957. Later he was elected as president for life in that nation, but his tenure was cut short by severe rioting and he had to flee. Who was this doctor and dictator?

Francois Duvalier (Papa Doc)

# Tri County League - Varsity Toss-up Round 7 Page 1

## 1. Patterns

The term comes from a Scottish town famed for its textile production. What adjective indicates a fabric figured with a pattern of colorful, curved droplet shapes?

paisley

## 2. Agreements

The binding agreement between parties in a real estate transaction under agreed-upon terms is called a ...

contract

## 3. Special Spans

A bridge in Iceland spans a rift valley separating the Eurasian plate from what other plate?

North American plate

## 4. Presidents

During whose administration were diplomatic relations established with China and the Department of Energy created?

Jimmy Carter

## 5. Food Preservation

What technique for food preservation employs these steps?

Food is frozen in an airtight tank and then the food is heated at the same time that air is pumped from the tank which removes water by sublimation.

freeze-drying

## 6. Evidence

Regarding the guilt of the accused in a criminal trial, proof must satisfy the judgment and proof must satisfy the judgment beyond a ...

reasonable doubt

## 7. Plates

The Australian plate forms the eastern boundary of what other plate?

African plate

## 8. Happy Trails

The introduction of the Atchison, Topeka, and Santa Fe Railroad in 1880 made wagon travel so unattractive and slow that what trail between Missouri and New Mexico fell into disuse?

Santa Fe Trail

## 9. Space Vehicles

What space probe accomplished these firsts?

- first pass through the asteroid belt
- first to fly by Jupiter
- first to approach the edge of the heliosphere

Pioneer 10

## 10. Cross References

In many references, if you look up "Formosa," you will be told to see ...

Taiwan

## Tri County League - Varsity Toss-up Round 7 Page 2

### 11. Ecosystems

An ecosystem consists of two parts. One is the living biotic environment. The other nonliving part is the ...

abiotic environment

### 12. German History

The Third Reich included the time of Hitler's dictatorship of Germany. The Second Reich was that of the empire under Bismarck. The First Reich referred to what empire?

Holy Roman Empire

### 13. Fictional Characters

What character spoke this line in a short story?  
Hunting? Good heavens, General Zaroff, what you speak of is murder!

Rainsford

### 14. Torture

Name the torture device in which a victim's body is bound to a frame and stretched.

rack

### 15. American Illustrators

James Flagg is mainly remembered for his World War I recruiting poster bearing the words, "I Want You," and his image of what character?

Uncle Sam

### 16. Neighbor Nations

What nation adjoins the Czech Republic and Slovakia on their northern borders?

Poland

### 17. Fantasies

Who wrote a tale in which the protagonist has foreknowledge of an eclipse, transfers five hundred knights from horseback to bicycles, and marries a young girl with whom he has a daughter named Hello-Central?

Mark Twain

### 18. Light

Light travels in waves of various lengths. The shorter the wavelength, the greater is what power of a microscope?

resolving power

### 19. Tax Reform

A major item of discussion in many tax reform debates is IRAs. For what do these initials stand?

individual retirement accounts

### 20. Gases

What atmospheric gas absorbs wavelengths of ultraviolet radiation longer than those absorbed by nitrogen and oxygen?

ozone

## Tri County League - Varsity Toss-up Round 7 Page 3

### 21. Clauses

What kind of dependent clause completes this?

A spokesperson for Universal Studios acknowledged that "a few bugs need to be ironed out" of the new theme park after the King Kong ride ate a Nebraska woman.

adverb clause

### 22. Library Science

Books such as "Don't Know Much about History" and "An Illustrated Outline History of Mankind" would be given numbers between what values in the Dewey Decimal System?

900-999

### 23. Pronouns

What is the demonstrative pronoun in this line?

Such is simply not the case, regardless of what she says.

such

### 24. Art Prints

In the bottom corner of a serigraph, you see the fraction, 11/230. What does this mean?

11th in an edition of 230 prints

### 25. Literary Characters

These are characters from what work by Gustave Flaubert?

Rodolphe Boulanger, Leon Dupuis, and Emma, Charles, Bertha, and Heloise Bovary

Madame Bovary

### 26. Fictional Heroes

This hero undertakes a hasty world tour as the result of a bet made at his London club. His valet is Passepartout. Name the hero.

Phileas Fogg

### 27. Colonial Namesakes

What colonial town in North Carolina, now the largest city in the state, was named after George III's queen?

Charlotte

### 28. Abnormal Weather

What adjective do meteorologists use to indicate weather that is abnormal for a time of year?

unseasonable

### 29. African Regions

The Sahel is a vast area of relatively dry grassland dotted with a few trees and thorny bushes. Name this biome.

savanna

### 30. Math Vocabulary

What word should have been used in this sentence?

A triangle which has an angle of 135 degrees is an obtuse triangle.

obtuse

## Tri County League - Varsity Toss-up Round 7 Page 4

**31. Verse**

The most popular of all humorous verse forms is named after what county in Ireland?

Limerick

**32. Paine's Poems**

What two words complete this 1775 verse by Thomas Paine?

From the east to the west blow the trumpet  
to arms!

Through the land let the sound of it flee.  
Let the far and the near all unite with a cheer,  
In defense of our ...

Liberty Tree

**33. Number Problems**

Find the two numbers if the larger of two integers is  $\frac{5}{2}$  the smaller and if twice the smaller is subtracted from twice the larger, the difference is 12.

4, 10

**34. Art History**

What is the French term for those innovative artists who are "ahead of their time" and who establish new directions for others to follow?

avant-garde

**35. Rights**

The Supreme Court said in relation to Nebraska Press Association v. Stuart that prior restraints on speech and publication are the most serious and the least tolerable infringements on rights guaranteed by what amendment?

First Amendment

**36. Astronomy**

What temperature scale is used by astronomers?

Kelvin scale

**37. Fairy Tales**

What traditional fairy tale, set in the time of King Arthur, relates episodes in the career of a boy who had a talent for killing giants by cunning?

Jack the Giant Killer

**38. Cytology**

All cell division in multicellular organisms occurs by mitosis except for what special form of cell division that generates gametes?

meiosis

**39. Stories**

What short story by Stephen Crane has this subtitle?  
A tale intended to be after the fact, being the experience of four men from the sunk steamer "Commodore"

The Open Boat

**40. Oceanography**

The point marking the outer edge of a continental shelf and the beginning of the continental slope is called the shelf ...

break

## Tri County League - Varsity Toss-up Round 7 Page 5

### 41. Forces

What force tends to push a car outward when rounding a curve?

centrifugal

### 42. Mountains

What mountain range west of the central Appalachians is mainly in West Virginia and western Pennsylvania?

Alleghenies

### 43. Novels

In what novel did natives refer to the central character and former ship's officer as Tuan Jim?

Lord Jim

### 44. Objects of Veneration

The Black Stone, believed by many to be a meteorite, is a cornerstone of what structure sacred to Muslims?

Kaaba

### 45. Black History Ballads

These lines are from a ballad about whom?  
In nineteen hundred and fifty five,  
In a southern American town,  
A tired colored lady got on a city bus  
And immediately sat down,  
With a closed mind and an opened mouth  
The big bus driver got rough  
And told his only passenger  
To move to the back of the bus.

Rosa Parks

### 46. Polygons

With what kind of polygon can you draw a line segment from two points within the polygon that also passes outside the figure?

convex polygon

### 47. Other Bases

Express as a binary numeral the number of sides on a dodecagon.

### 48. Authors

Who wrote a mystery based on this rhyme?  
Ten little Injuns standin' in a line,  
One toddled home and then were nine.  
Nine little Injuns swingin' on a gate,  
One tumbled off and then there were eight.

1100

### 49. Extinct Creatures

What Pleistocene animals were 10 feet tall, had long, curved tusks, and long coarse hair?

Agatha Christie

mammoths (woolly mammoths)

### 50. Poems

This is about what Gothic church in London?  
Let me take this other glove off  
As the vox humana swells,  
And the beauteous fields of Eden  
Bask beneath the Abbey bells.  
Here, where England's statesmen lie,  
Listen to a lady's cry.

Westminster Abbey

## Tri County League - Varsity Toss-up Round 7 Page 6

**51. Square Root**

What is the square root of 16(B squared)?

4B

**52. Solids**

What adjective indicates the part of a cone, cylinder, or prism that is bounded by two non-parallel plane sections?

truncated

**53. Planetary Positions**

An inferior planet is in inferior conjunction when it is between what two heavenly bodies?

Earth, Sun

**54. Twisted Relationships**

In "The Scarlet Letter," whom does Hester's husband keep physically healthy while torturing him emotionally?

Arthur Dimmesdale

**55. Volcanoes**

Long tunnel-like caves sometimes penetrate lava flows. These tunnels are lava ...

tubes

**56. Saturation**

Achromatic colors have zero saturation while the saturation of chromatic colors is expressed as values between what two numbers?

0, 1

**57. History of Art**

In the 17th century, artists began making objects of what non-malleable iron alloy by pouring molten metal into molds?

cast iron

**58. Foxes**

A female fox is called a ...

vixen

**59. Opulent Pops**

An elderly, wealthy man who lavishes expensive presents on a young woman may be referred to as what kind of daddy?

sugar daddy

**60. Historical Geography**

In 1945, Winston Churchill said that an iron curtain had descended from Stettin in the Baltic to Trieste in what other sea?

Adriatic Sea

## Tri County League - Varsity Toss-up Round 7 Page 7

### 61. Essays

Who wrote an essay containing these thoughts?  
-Government is best which governs least.  
-Individual conscience is the moral arbiter.

Henry Thoreau

### 62. Jargon

In medical jargon, "a therapeutic misadventure" or "a diagnostic misadventure of high magnitude" is a euphemism for medical ...

malpractice

### 63. Lenses

What is the name for a diverging lens that is flat on one side and inwardly cupped on the other?

planoconcave

### 64. Alloys

What alloy consists of 925 parts silver and 75 parts copper?

sterling silver

### 65. History of Science

He placed two barrels of wine on a ship. One had been heated. After ten months, the heated wine was still perfect while the other was spoiled. What Frenchman performed this experiment?

Louis Pasteur

### 66. Algebra

Express algebraically the average of  $n$  and 20.

$(n+20)/2$  or  $1/2 (n+20)$

### 67. Radians

Express 135 degrees in terms of radians.

$(3\pi)/4$

### 68. Complements

What are the complements in this sentence?  
Hal is a computer that annoys astronauts.

computer, astronauts

### 69. Color

Blue and green and red are chromatic colors. What is an achromatic color?

black (gray, white)

### 70. Spiritual Experimentation

What one-time Harvard lecturer had these nicknames because of his experiments with hallucinogens?  
Chemical Messiah  
Supersalesman of the Turned-on Generation  
Guru of LSD

Timothy Leary



## Tri County League - Varsity Toss-up Round 7 Page 8

### 71. Poetic Settings

This stanza is about a city in what country?

Across the plain, beneath the wind,  
Black my pony, red the moon,  
Death stands and watches as I come,  
Watches from the towers of Cordoba.

Spain

### 72. Amendments

What Constitutional amendment passed in 1804 ensured that a tie vote between the presidential and vice-presidential candidates of the same party could not occur again?

12th amendment

### 73. Wings

The arrangement of the rib-like tubes in an insect wing is called ...

venation

### 74. Number Sums

What is the sum of the whole numbers from 1 to 99?

4950

### 75. Employment Categories

Except for elected officials, the judiciary, and military personnel, all people employed by a government make up what service?

civil service

## Tri County League - Varsity Toss-up Round 8 Page 1

### 1. Military Formations

Name the military formation developed by Philip II of Macedon and used by Alexander the Great in which the troops carry overlapping shields and long spears.

phalanx

### 2. The Declaration

What word in the solemn promise at the end of the Declaration of Independence is also the name for one of the U.S. capital cities?

Providence

### 3. Gerunds

What word is a gerund in this example sentence?  
Dozens of American corporate executives have been calling the FBI to say that playing golf is not killing their abilities to manage.

playing

### 4. Federal Agencies

The creation of what federal agency in 1924 eclipsed the work of the Pinkerton National Detective Agency?

FBI

### 5. Czars

The eldest son of a Russian czar was the czarevitch.  
The czar's wife was called the ...

czarina

### 6. Novel Plots

Magnolia Hawks is a leading lady in her father's troupe. She marries a gambler named Gaylord Ravenal and becomes a successful singer after he deserts her. Name this novel by Edna Ferber.

Show Boat

### 7. Ancient Greece

This is about what Greek city-state?  
Below the full citizens were the perioeci, the mixed population of free but heavily-taxed workmen. Below the perioeci were the helots, composed mainly of serfs, the most downtrodden of all the Greeks.

Sparta

### 8. Anxiety

What kind of acute, recurring anxiety attack is this person describing?  
My heart was beating so hard I thought it would jump out of my chest. I felt like my legs wouldn't support me. My hands got icy. There were shooting pains in my forehead.

panic attack

### 9. Legends

Scylla sat on a rock on the Italian side of the Strait of Messina. According to legend, who sat on the rock between Bingen and Koblenz on the right bank of the Rhine?

Lorelei

### 10. Lake Shores

Identify the three states that have a shoreline on Lake Superior.

Minnesota, Michigan, Wisconsin

## Tri County League - Varsity Toss-up Round 8 Page 2

**11. Glaciation**

After glacial ice in a cirque has melted, the remaining lake is called a ...

tarn

**12. Prosit!**

There are 8 bull riders in a room when Dusty Rhodes makes a toast. If each rider then taps his glass once with every other rider, how many taps are there?

28

**13. Writing Errors**

What error is illustrated in this line?

Born on June 10, 2006, Art Pendragon and his wife announced the arrival of their daughter, Merlina.

dangling participle

**14. Twins**

Which type of twins have DNA that is exactly alike?

identical (monozygotic)

**15. Heavenly Distortion**

Earth's equatorial diameter is about 43 kilometers longer than its polar diameter. Venus rotates so slowly that it has practically no distortion. At the other extreme, which planet spins so rapidly that it is almost 10 percent out of round?

Saturn

**16. Parliamentary Laws**

What did the British call the laws known in 1774 colonial America as the Intolerable Acts?

Coercive Acts

**17. Securities**

What adjective indicates major stocks which analysts regard as indicating the market's direction?

bellwether

**18. Eponyms**

The bayonet was named after what French town?

Bayonne

**19. Evolution**

What two vertebrate classes appeared after Osteichthyes and before Aves?

Amphibia, Reptilia

**20. Genotypes**

A human with an XXY genotype is what sex?

male

## Tri County League - Varsity Toss-up Round 8 Page 3

**21. Astronomical Discoveries**

In 1962, unusual objects were discovered in the heavens. These radiate with the energy of a hundred ordinary galaxies but they are only one to ten light years in diameter. Name them.

quasars

**22. Plate Tectonics**

Name the boundary in North America between the Pacific plate and the North American plate.

San Andreas Fault

**23. Hindu Mythology**

Kali is a Hindu goddess and wife of ...

Shiva

**24. The Heart**

Which of the three layers of the heart is thickest?

myocardium

**25. Capitalist Literature**

What essay written by Andrew Carnegie in 1889 describes the philanthropic responsibilities of the rich?

The Gospel of Wealth

**26. Jimmy Carter**

During Carter's presidency, what country seized and held as hostage more than fifty Americans working in a U.S. embassy?

Iran

**27. Tropisms**

The growth or movement of a plant in response to water is called ...

hydrotropism

**28. Genetics**

Name this rule from Gregor Mendel.

The two genes that determine a trait separate when sex cells form. Half the sex cells receive one gene from each gene pair, the other half receive the other gene of the pair.

rule of segregation

**29. The Nervous System**

What part of the central nervous system controls functions of internal organs, movements of the gastrointestinal tract, and the secretions of different glands?

autonomic

**30. Numbers**

The sum of the digits of a two-digit number is 12. The number named is 18 more than the number named when the digits are reversed. What is the number?

## Tri County League - Varsity Toss-up Round 8 Page 4

### 31. Law Changes

Forty-three years after the Scopes "monkey trial," what state finally abolished its law prohibiting the teaching of evolution?

Tennessee

### 32. Hymns

These are what type of hymn?

Glory to God (Gloria Patri)  
Glory Be (Gloria in excelsis)  
Holy, Holy, Holy (Sanctus)

doxologies

### 33. Parodies

What verb did James Thurber replace in the saying when he wrote this?

It is better to have loafed and lost than never to have loafed at all.

loved

### 34. Philosophy of Law

Complete this quote by Thomas Jefferson.

Laws are made for men of common understanding, and should therefore be construed by the ordinary rules of common ...

sense

### 35. Africa

The second largest country in sub-Saharan Africa is on the Atlantic Ocean and is bordered to the north by Zaire, to the east by Zambia, and to the south by Namibia. Name it.

Angola

### 36. Betrayals

Who ultimately betrays Winston Smith in Orwell's "1984"?

Julia

### 37. World War I Tunes

Who are coming according to these lyrics from a World War I song?

Over there over there  
Send the word, send the word over there  
That the ---- are coming, the ---- are coming,  
The drums rum-tumming ev'rywhere

Yanks

### 38. Molecules

What adjective indicates a molecule with oppositely charged ends?

dipole (polar, dipolar)

### 39. Expressions

To have excellent food and drink is to feed on ambrosia and ...

nectar

### 40. Invasions

What city that was sacked by the Visigoths in 410 was again sacked by the Vandals in 455?

Rome

## Tri County League - Varsity Toss-up Round 8 Page 5

### 41. History of Mexico

The name of what people who controlled most of central Mexico prior to the Aztecs was taken from their capital city of Tollan?

Toltec

### 42. Sprained Ankles

Eversion sprains occur when the foot turns outward, affecting ligaments on the inner side of the foot. Most sprained ankles, though, occur when the sole of the foot turns inward, injuring ligaments on the outside of the ankle. What is the corresponding name for these sprains?

inversion sprains

### 43. Verbs

What category of verbs is illustrated in these examples?

- Henry's harmonica sounds horrible.
- Bob's bologna smells bad.
- Tom's tuxedo looks terrific.

linking (or sensory) verbs

### 44. Operation Banner

After 38 years, the longest military operation in British history was concluded in 2007 when soldiers were withdrawn from what region in the United Kingdom?

Northern Ireland

### 45. Prefixes

What is a Latin prefix with the same meaning as the Greek prefix "hemi-"?

semi-, demi-

### 46. Engines

The intake stroke and the compression stroke are two of the four strokes of a four-cycle internal combustion engine. Name the other two strokes.

power stroke, exhaust stroke

### 47. Theater

Theatrical makeup that is impervious to heat or perspiration is generically called ...

greasepaint

### 48. Federal Support

What kind of grant is provided by the federal government to state and local governments with only broad stipulations on how the funds should be used?

block grant

### 49. Embryology

Most of the skeleton of the early vertebrate embryo is composed of ...

cartilage

### 50. Birds

Cockatoos and parakeets all belong to what family of birds?

parrot

## Tri County League - Varsity Toss-up Round 8 Page 6

### 51. Tragedies

This event occurred in what country in 1983?  
A terrorist drove a truck packed with explosives into a building full of sleeping Marines and sailors, killing 241.

Lebanon

### 52. Promissory Notes

U.S. government promissory notes issued by the U.S. Treasury having maturity periods longer than those of treasury notes are called ...

treasury bonds

### 53. Thurberian Observations

According to James Thurber, you can fool too many of the people too ...

much of the time

### 54. Forts

The Presidio was a fort built overlooking what bay?

San Francisco Bay

### 55. Constellations

It can be found by extending a line beginning with the pointer stars of the Big Dipper through the North Star. It is twice as far from the North Star as the Big Dipper. Name this constellation between Andromeda and Aquarius.

Pegasus

### 56. Fictional Clericals

James Bond's boss, M, has a secretary named ...

Miss Moneypenny

### 57. Accounting

What adjective describes the year by which accounts are reckoned and books balanced?

fiscal

### 58. Law Vocabulary

A person found not guilty by a court of law has been ...

acquitted (absolved, exculpated, cleared, etc.)

### 59. Mythical Allusions

What mythical Greek woman's name is used in a modern allusion to any present that seems valuable but is actually a curse?

Pandora

### 60. Volcanoes

Beyond Earth, the greatest number of volcanoes are on what planet?

Venus

## Tri County League - Varsity Toss-up Round 8 Page 7

### 61. Tuning Forks

The most common tuning fork used by musicians produces what note that has long been a standard tuning note for orchestras since it is the pitch of the violin's third string played open, the fourth string of the viola played open, and an octave above the fourth string of the cello played open?

A.

### 62. Nonfiction

Randy Shilts work, "And the Band Played On," examines the first five years of the development of what epidemic in the U.S.?

AIDS

### 63. Infections

What is the popular name for the fungal infection, "Tinea pedis," which thrives in warm, damp places like the floor near a swimming pool or a locker room shower?

athlete's foot

### 64. Latin America History

U.S. Marines landed in what Latin American nation in 1926 to shore up the government of Adolfo Diaz?

Nicaragua

### 65. Acids

What adjective describes an acid with a basicity of one?

monobasic

### 66. Lyrics

This is from a song in what musical?

Could be! Who knows?

There's something due any day;

I will know right away,

Soon as it shows.

It may come cannon-balling down thru the sky,

Gleam in its eye,

Bright as a rose!

West Side Story

### 67. Great Cities

Alexander the Great attempted but failed to make what great metropolis the capital of his empire?

Babylon

### 68. Asian History

He lived between 563 and 483 B.C. He taught for forty-five years. In his first sermon he outlined the "Four Noble Truths" and "The Eightfold Path." Who was he?

Buddha (Siddhartha Gautama)

### 69. Vessels

What navy vessels were called birdfarms during the Vietnam War and flattops during the Second World War?

aircraft carriers

### 70. The Russian Revolution

The name of what party completes this line by a leading Menshevik in 1917?

There has been no transfer of power to the Soviets, but a seizure of power by one party, the ...

Bolsheviks



## Tri County League - Varsity Toss-up Round 8 Page 8

### 71. French

What unit of measurement is described by the French words, "force de cheval"?

horsepower

### 72. British Authors

Identify the author of these works.

The Spy Who Came in from the Cold

The Looking Glass War

Tinker, Tailor, Soldier, Spy

A Murder of Quality

The Russia House

The Little Drummer Girl

John Le Carre

### 73. Territorial Expansion

The U.S. acquired the Pribilof Islands at the same time that it purchased what other major piece of real estate?

Alaska

### 74. The Impersonal Future

In what novel by Ayn Rand, in which there are no such words as "I" or "my," is it a crime to want privacy or to have personal desires?

Anthem

### 75. Accusations

When George Bush accused Michael Dukakis of being a card-carrying member of the ACLU, he was criticized because of the association of the phrase "card-carrying member" with other charges made by what senator from Wisconsin?

Joseph McCarthy

# Tri County League - Varsity Toss-up Round 9 Page 1

## 1. Appeals

Who wrote these words in 1836?

I am besieged by a thousand or more Mexicans under Santa Anna. I call on you in the name of liberty, of patriotism, and of everything dear to the American character, to come to our aid with all dispatch.

William Travis

## 2. Presidential Powers

A presidential exemption from prosecution for criminal acts such as desertion, draft evasion, or rebellion is called ...

amnesty (pardon)

## 3. Regional Clothing

Name the knee-length skirt made of tartan wool with deep pleats worn as part of the dress for the men in the Scottish highlands.

kilt

## 4. Geographic Place Names

These geologic sites are in what state?

Paradox Valley, Uncompahgre Plateau, Pikes Peak, Sleeping Ute, Rampart Range, Great Sand Dunes, Black Canyon, La Plata Mountains

Colorado

## 5. Astronomy

If the big bang theory is correct, the energy left from this primordial event should be spread out throughout the universe. What adjective describes this type of radiation?

background

## 6. Conservation

This is about whom?

The society for the protection of birds was named after him, although as a young man he shot much feathered game for sport.

John J. Audubon

## 7. Arcs

An angle formed by two intersecting chords is measured by what fraction of the sum of the intercepted arcs?

1/2

## 8. Art Media

With what medium is the artist working if he is engaged in these activities?

pulling up  
centering  
slabbing  
wedging  
cutting off

clay (ceramics)

## 9. Land Sales

In 1785, a U.S. land ordinance provided for the sale of public lands at auction for \$1 per acre, providing the buyer would purchase parcels of one section each. How much did the buyers have to put up for each section?

\$640

## 10. Lakes

Name the largest lake in the Great Basin area of the U.S.

Great Salt Lake

## Tri County League - Varsity Toss-up Round 9 Page 2

### 11. Seamounts

The Emperor Seamounts are what kind of mountains?

volcanic

### 12. Eye Injuries

Retinal detachment occurs when the retina becomes separated from what other layer of the eyeball?

choroid layer

### 13. Walkabout Math

What is the total area of the figure you walked around if you walked 20 feet south, 30 feet east, 40 feet north, 70 feet west, 20 feet south, and then directly back to your starting point?

2000 square feet

### 14. Chemistry

Chemists refer to isobars as different nuclides having the same ---- number.

mass

### 15. Algebraic Exponents

What is  $x^y$  to the zero power?

### 16. Squares

Find two perfect squares with a sum of 52.

16, 36

### 17. Dire Straits

The enormous explosion in 1883 that created the tsunami that wiped out 163 Indonesian villages occurred when Krakatoa erupted in what strait?

Sunda Strait

### 18. Algebraic Simplification

Simplify this expression.

$$(6f^2 + 5f - 4)/(2f - 1)$$

$3f + 4$

### 19. Scottish Poetry

This is the ending of what poem by Robert Burns?

O wad some Pow'r the giftie gie us  
To see oursels as others see us  
It wad frae monie a blunder free us  
An' foolish notion  
What airs in dress an' gait wad lea'e us  
An' ev'n Devotion.

To a Louse

### 20. The Fertile Crescent

Which of the two rivers of the Fertile Crescent carries the greater volume of water?

## Tri County League - Varsity Toss-up Round 9 Page 3

**21. European Monarchies**

The surname, Plantagenet, is linked with what country?

England (Great Britain)

**22. Moods**

Reminiscent of a part of the Atlantic Ocean near the equator, a person in a state of listlessness or depression is in the ...

doldrums

**23. Chemical Particles**

Small particles formed by shaving a metal, similar in size to grains or granules, but long and thin, are called ...

filings

**24. Science Marches On**

In 1632 he was summoned to Rome to denounce his support of the Copernican system. After doing so he rose and whispered to a friend regarding the Earth, "It does move though." Who was he?

Galileo

**25. The Carter Presidency**

An agreement involving what two nations is considered Jimmy Carter's greatest achievement as president?

Egypt, Israel

**26. Industrialists**

This is about whom?

He gloried in the cheap steel his leadership had given the American consumer but also proclaimed the moral duty of all possessors of great wealth to plow their money back into philanthropy.

Andrew Carnegie

**27. Campaigns**

The dirty tricks campaign was a series of actions directed against political opponents of what U.S. president?

Richard Nixon

**28. Astronomical Events**

An equinox occurs when the Sun crosses the plane of the Earth's ...

equator

**29. Advertising**

A means of marketing in which consumers are sent correspondence to their home is called ...

direct mail

**30. Triangle Theorems**

If two sides of a triangle are equal in length, the angles opposite these sides are ...

congruent (or equal)

## Tri County League - Varsity Toss-up Round 9 Page 4

**31. Genetics**

What chromosome is associated with male characteristics in humans?

Y chromosome

**32. Misconduct**

Malfesance is the act of an official that is wrongful in itself. Mifeasance is doing an otherwise lawful act in an unlawful manner. This omission of an act required by an official's duties is called ...

nonfeasance

**33. Neurotic Attachments**

What term in psychology indicates an obsessive preoccupation or a strong attachment to a person or thing, especially one formed in childhood, that persists throughout life?

fixation

**34. Triangles**

A right triangle has legs of 12 and 5 feet. What is the length of the hypotenuse?

13 feet

**35. Outlining**

People versed in the practice of outlining agree that the smallest number of subheadings a topic can have is ...

**36. Literary Clubs**

These are American literary societies devoted to what author?

Red-Headed League of Westtown, Pennsylvania  
Hounds of the Baskervilles of Chicago

Arthur Conan Doyle

**37. Asia**

Nepal gained its independence from what country in 1923?

Great Britain

**38. Invasions**

Italians under what dictator invaded Abyssinia in 1935?

Benito Mussolini

**39. Metallic Mixtures**

An alloy of the element with the symbol Hg and another metal is called an ...

amalgam

**40. Mythical Figures**

While flying across the Icarian Sea, he got too close to the Sun and the wax holding his wings together melted. Who was he?

## Tri County League - Varsity Toss-up Round 9 Page 5

### 41. Law Enforcement

What elite group of highly trained law enforcement officers was originally organized by Stephen Austin to defend the frontier against Indian attacks?

Texas Rangers

### 42. Divisibility

Since a number is divisible by  $p$  and by  $q$ , and  $p$  and  $q$  have no factors in common, the number is also divisible by ...

$pq$

### 43. Foot Soldiers

What compound word describes the holes dug by members of the infantry to serve as shelters?

foxholes

### 44. Wheels

A bike wheel 28 inches in diameter covers how many feet in 6 complete turns?

44

### 45. Physical Abnormalities

A pathological condition resulting in extremely short stature is called ...

dwarfism

### 46. Electricity

When an electrical conductor is moved in a magnetic field, a current will flow in it. This generation of electromotive force in a closed circuit is called ...

induction

### 47. Prohibitions

In times of crisis, a local or national government may prohibit people from going out into the streets after a given hour. Such a prohibition is called a ...

curfew

### 48. Rulers

The title for a person who reigns for a king or queen while the sovereign is a minor or disabled is also used for a member of the governing board of some state universities in the U.S. What is this title?

regent

### 49. Military Moves

What general led the military operation described in this account?

In 1864, his army cut a swath to the sea 300 miles in length and 60 miles wide, destroying factories, cotton gins, warehouses, bridges, and railroads.

William Sherman

### 50. Folklore

Name the sprites of Scottish superstitions that are supposed to do helpful housework at night.

brownies

## Tri County League - Varsity Toss-up Round 9 Page 6

### 51. European Rivers

What river that begins in the Swiss Alps flows northward through Switzerland, Liechtenstein, Austria, Germany, and the Netherlands?

Rhine

### 52. Emissions

What radioactive emission was discovered by Wilhelm Konrad Roentgen?

x-rays

### 53. Communication

What is the name for the specialized language in this example?

The round hinged on two pars on the treacherous dogleg water holes and surprise birdies and eagles after hitting two OBs on the 16th hole to card a quadruple bogey for his only snowman.

jargon

### 54. Organs

What organ has ascending, transverse, descending, and sigmoid portions?

colon (large intestine)

### 55. First Meetings

In its first meeting in 1960, what organization then consisting of just Saudi Arabia, Iran, Iraq, Kuwait, and Qatar forced a retraction of the decrease in oil prices by Standard Oil of New Jersey, which had unilaterally rolled back prices by 4 cents to 14 cents per barrel?

OPEC

### 56. The Armada

The great Spanish Armada was met by the English fleet in 1588 in the English Channel and the Strait of ...

Dover

### 57. Dependent Clauses

As what part of speech is the dependent clause used in this line?

Bill reiterated everything he had said about Whitewater before.

noun

### 58. Elections

In an election for city sidewalk crack counter, Mr. Fissure got 7 votes and Ms. Crevice got 52 votes. If Ms. Groove won the election with a majority of the votes, what is the minimum number of votes she received?

60

### 59. Aviation

An aircraft surface such as a wing or propeller blade that controls lift or propulsion is an ...

airfoil

### 60. Anthropological Finds

Fossil remains of what humanoid were found in Zhoukoudian Cave in 1927?

Peking man

## Tri County League - Varsity Toss-up Round 9 Page 7

**61. A Hairy Question**

The root of each hair is in a tiny sac called the hair ...

follicle

**62. Gland Analogies**

Ductless is to endocrine glands as ducts are to ...

exocrine glands

**63. Clauses**

What kind of pronoun introduces the dependent clause in this example?

The guy who is wearing the red suit, the black boots, and the goofy hat is Mr. Claus.

relative pronoun

**64. Prisons**

What prison used mainly for captured Union officers was in Richmond, Virginia?

Libby Prison

**65. Plants**

Shoots of plants that grow horizontally along the ground or just beneath it from which new plants form are called ...

runners (stolons)

**66. Trading Posts**

What commodity was traded in places like Henry's Fork on the Green River at a rendezvous?

furs (pelts, skins)

**67. 18th-Century Rebellions**

This outbreak in western Pennsylvania, resulting from an attempt by the federal government to enforce an excise law passed in 1791, was called the ...

Whiskey Rebellion

**68. First Aid**

In reaction to trauma, what condition is characterized by a loss of blood pressure and depression of vital functions?

shock

**69. System Evolution**

The immense cloud of gas and particles of floating cosmic dust from which our solar system condensed 4.6 billion years ago is called the solar ...

nebula

**70. Pollution**

Twenty people died and thousands became ill in Donora, Pennsylvania in 1948 when an atmospheric condition prevented industrial smoke from dispersing. This atmospheric condition was an ...

inversion



## Tri County League - Varsity Toss-up Round 9 Page 8

### 71. Speeds

Speeds faster than subsonic and slower than hypersonic are indicated by what adjective?

supersonic

### 72. Ancient Capitals

Identify the capital of the Old Kingdom of Egypt at the apex of the Nile Delta.

Memphis

### 73. Chemical Antonyms

What is the opposite of a "cation"?

anion

### 74. Historical Economic Measures

What nation attempted to protect its own industries by passing these acts during the early 1700s?

Hat Act

Iron Act

Woolen Act

England

### 75. The Brain

The central core of the brain includes four primary structures. Which one is missing?

medulla

hypothalamus

thalamus

cerebellum

## Tri County League - Varsity Toss-up Round 10 Page 1

### 1. Death Law

Legally, the failure to respond to external stimuli, the absence of reflex movement, and prolonged flat electroencephalograph readings are indicators of what kind of death?

brain death

### 2. The Electoral College

In what article of the Constitution did the framers define the procedures by which electors would be chosen in each state?

no where

### 3. Stage Scenery

A two-fold piece of scenery that is freestanding when angled open is called a ...

book flat

### 4. Immigration

The discovery of what was responsible for large numbers of people going to South Africa in 1884, to the Klondike in 1896, and to California in 1849?

gold

### 5. Incantations

What are the first five words of the incantation uttered by the witches in "Macbeth"?

Double, double, toil and trouble

### 6. Proverbs

How does this proverb usually begin?

It is practicable to entice an Equus caballus to a reservoir of dihydrogen oxide but coercing him to imbibe is highly improbable.

You can lead a horse to water ...

### 7. Geography

Iran borders Pakistan and what other Moslem country to the east?

Afghanistan

### 8. Forces

If you hold a stick under water and let go, it shoots to the surface because of what force?

buoyancy (buoyant force)

### 9. Eastern Europe

What former Soviet satellite bordered the Black Sea, Yugoslavia, and Greece?

Bulgaria

### 10. Ruined Receptions

Philip of Macedon was assassinated at his daughter's wedding in 336 B.C. Name the 20-year-old son who succeeded him.

Alexander

## Tri County League - Varsity Toss-up Round 10 Page 2

**11. Myofibrils**

Myofibrils are the fundamental contractile portion of what kind of cells?

muscle cells

**12. Rain**

What category of rainfall takes place at the boundary between a mass of warm moist air and a mass of cold air?

frontal rainfall

**13. Septicemia**

Septicemia is caused by pathogenic organisms or their toxins. Its common name is ---- poisoning.

blood

**14. Novels**

This is from what book?

If the Party made an inaccurate prediction on the progress of the war, Winston corrected the record. Published material was constantly changed so all history accorded with the wishes of the Party.

1984

**15. Powers of Numbers**

The number 0.0001 equals 1 times ten to what power?

minus fourth power

**16. Fictional Homes**

Name the gentleman who lives at Wuthering Heights in a novel by Emily Bronte.

Heathcliff

**17. Big Numbers**

How many zeroes are in the decimal representation of a googol?

100

**18. Auxiliary Verbs**

What two auxiliary verbs begin with "c"?

can, could

**19. Science Fiction**

This excerpt is from what H.G. Wells story?

We have learned now that we cannot regard this planet as being fenced in and a secure abiding place for Man. We can never anticipate the unseen good or evil that may come upon us suddenly out of space.

The War of the Worlds

**20. Integers**

The sum of the first 12 positive integers is ...

## Tri County League - Varsity Toss-up Round 10 Page 3

### 21. Technology

What is the abbreviation covering a broad spectrum of technologies that includes field such as speech recognition, robotics, problem solving, and pattern recognition?

AI (artificial intelligence)

### 22. Organizations

Some called what international organization of the 1920s "The Unholy Thing with a Holy Name"?

League of Nations

### 23. Poetic Inspirations

Abraham Lincoln's signing of what document prompted Ralph Waldo Emerson to recite this verse?

I break your bonds and masterships,  
And I unchain the slave:  
Free be his heart and hand henceforth  
As wind and wandering wave.

Emancipation Proclamation

### 24. South American Cities

La Paz is to Bolivia as ---- is to Brazil.

Brasilia

### 25. Poetry

This illustrates what form of poetry?  
Banderas sword drawn  
Parries with furious grace  
Flubs mark of Zorro.

haiku

### 26. Congress

These are what kind of committees in Congress?  
appropriations  
veterans affairs  
armed services  
ways and means  
foreign relations

standing committees

### 27. Court Witnesses

What adjective describes a witness who testifies at a trial, vouching for the defendant's high moral standards and good standing in the community?

character

### 28. Measurement

What system, the name of which is reminiscent of an ancient city in Asia Minor discovered by Heinrich Schliemann, is used for precious metals and gems?

troy system

### 29. Freedom of Speech

What was the nationality of the person who is supposed to have said this in the 18th century?  
I do not agree with a word you say, but I will defend to the death your right to say it.

French

### 30. American Law

Minor legal matters such as misdemeanors, small claims, and traffic matters may be handled in some states by a J.P. which stands for ...

justice of the peace

## Tri County League - Varsity Toss-up Round 10 Page 4

**31. Medical Etymology**

What medical term was taken from the Latin words meaning "against" and "a way of life"?

antibiotic

**32. International Proposals**

Open treaties among the world's nations, recognition of the rights of neutrals, freedom of the high seas, free trade among all countries, reduced armaments, self-determination for all nations, and mediation of colonial claims were among the issues in what postwar plan presented by Woodrow Wilson?

Fourteen Points

**33. History of Ballet**

Ballet in the U.S. in 1974 was dominated by three defectors from the Soviet Union including Rudolf Nureyev, Natalia Makarova, and ...

Mikhail Baryshnikov

**34. Astronomy**

These are examples of what?  
June Lyrids, Alpha Capricornids, Aurids,  
Geminids, Beta Cassiopeids

meteor showers

**35. Volcanoes**

Dramatic volcanic eruptions which throw debris high into the air are explosive. Relatively quiet volcanic eruptions which emit basaltic lava moving at just a few miles per hour are described as being ...

effusive

**36. Glaciation**

What kind of glacial deposit is Long Island in New York?

(terminal, end) moraine

**37. Tax**

Mildred has a gross income of \$9,800 per year. Her deductions amount to \$3,650. She pays state taxes at the rate of 2% on the first \$1,000 of taxable income and 3% on the next \$2,000 of taxable income and 4% on the balance. The total tax is ...

\$206

**38. Genetics**

In meiosis, what happens to the number of chromosomes in a cell?

It is halved (cut in half)

**39. Leaders**

The German word for "emperor" is ...

Kaiser

**40. Cities**

Georgetown is the largest city and capital of what South American country?

Guyana

## Tri County League - Varsity Toss-up Round 10 Page 5

**41. Organized Crime**

People targeted for murder by the Mafia are on what kind of list?

hit list

**42. Language History**

He insisted on Americanized spellings of words such as "wagon" and "center" instead of the British "waggon" and "centre." Name this author of these works.

The Blue-Backed Speller  
American Dictionary of the English Language

Noah Webster

**43. Short Stories**

In the short story by W.W. Jacobs, what is the talisman that grants its possessor three wishes?

a monkey's paw

**44. Medieval Concepts**

In medieval times, the acknowledgment by a vassal of allegiance to his lord was called ...

homage

**45. Anatomy**

Either of the two side projections of the pelvic girdle is called a(n) ...

hip (ileum)

**46. Acting**

An actor versed in another's part, ready to fill in if needed, is an ...

understudy

**47. Medical Tests**

Snellen's chart is used to test ...

vision (visual acuity)

**48. Letters to the Editor**

In 1722, a series of letters appeared in the New England Courant written by a middle-aged widow named Silence Dogood. These letters that poked fun at various aspects of life in colonial America such as drunkenness and the fashion for hoop petticoats were actually written by what 16-year-old boy?

Benjamin Franklin

**49. Native American Quotes**

What Indian chief said this?

I am tired of fighting. Our chiefs are killed. The old men are all dead. The little children are freezing to death. From where the sun now stands, I will fight no more forever.

Chief Joseph

**50. Historic Descriptions**

Who did Marco Polo describe with these words?

He is of good stature, neither tall nor short. He has a becoming amount of flesh and is shapely in all his limbs. His eyes are black and fine, and the nose well formed and well set on.

Kublai Khan

## Tri County League - Varsity Toss-up Round 10 Page 6

**51. Dance**

What French name for an early German dance in 2/2 or 4/4 time of moderate tempo rhymes with such words as "fatherland" and "ampersand"?

allemande

**52. Sculptures**

Benvenuto Cellini created a sculpture of what mythical being holding the head of Medusa?

Perseus

**53. Hidden Nations**

What nation of eastern Africa is hidden in this line?  
A pug and a poodle meet in Africa.

Uganda

**54. American Government**

The first meeting of the U.S. House of Representatives was held on April Fool's Day. Give the month, day, and year of this meeting.

April 1, 1789

**55. Healing Dihydrogen Oxide**

A mineral spring supposed to have healing properties is called a ...

spa

**56. Governmental Powers**

The authority of the House of Representatives to bring charges against public officials for misconduct in office is the power of ...

impeachment

**57. Astronomy History**

Whose instruments aboard the first U.S. satellite, Explorer I, led to the discovery of the two zones of intense radiation around the Earth?

(James) Van Allen's

**58. Science Fiction Authors**

What author of "Five Weeks in a Balloon" also wrote about submarines and space travel?

Jules Verne

**59. Circles**

Find the circumference of a circle in terms of pi if the area is 25 pi.

10 pi

**60. Industrial Revolution**

These names are associated with the history of the development of what invention relevant to the Industrial Revolution?

the Greek scientist Hero

Denis Papin

Thomas Newcomen

James Watt

steam engine

## Tri County League - Varsity Toss-up Round 10 Page 7

### 61. Federal Agencies

What unit of the U.S. Department of the Interior manages the National Wildlife Refuge System, the Federal Duck Stamp program, the National Fish Hatchery System, and the Endangered Species program?

Fish and Wildlife Service

### 62. Seaside Countries

Identify the largest country adjacent to both the Timor Sea and the Arafura Sea.

Australia

### 63. Midpoints

Determine the midpoint of the segment from  $(-6,5)$  to  $(2,5)$ .

$(-2,5)$

### 64. Plastering Geometry

A room is 14' long by 12' wide and 8.5' high. It has 2 windows each 3' by 6' and 1 door 3' by 7'. At \$1.80 per square yard, what is the cost of plastering the walls and ceiling excluding the openings?

\$110.60

### 65. Languages of the Lofty

What language do most people speak who live in the vicinity of the world's highest waterfall?

Spanish

### 66. Urban Settings

What city serves for at least part of the setting for all these works?

Patriot Games

The Da Vinci Code

The Sign of Four

Dracula

The Picture of Dorian Gray

The Strange Case of Dr. Jekyll and Mr. Hyde

London

### 67. African Capitals

Lusaka is the capital of what African nation?

Zambia

### 68. Aliens

The expulsion of an undesirable alien from a country is called ...

deportation

### 69. Sultans

Suleiman I was the sultan of what empire from 1520 to 1566?

Ottoman

### 70. Congressional History

Only eleven states were represented at the first meeting of Congress in April of 1789. North Carolina did not ratify the Constitution until a few months later. What state waited until 1790 to complete the union of the original thirteen states?

Rhode Island



## Tri County League - Varsity Toss-up Round 10 Page 8

**71. Algebra**

Algebraic expressions with three terms are called ...

trinomials

**72. Novels**

Name A.B. Guthrie's Pulitzer Prize winning novel about a journey to Oregon.

The Way West

**73. Quadrilaterals**

If the area of a rectangle is 40 square feet and the length is 3 feet more than the width, what is its length?

8 feet

**74. Song Lyrics**

These words are in what song?

Readin' and writin' and 'rithmetic,  
Taught to the tune of a hickory stick

School Days

**75. Geometrical Complements**

The measure of an angle equals  $3x + 60$ . The measure of its complement equals what?