



Pristine #249 HS

Minnesota Service Cooperatives Knowledge Bowl

Round # 4

8/4/04

© Academic Hallmarks

1 ~~P~~ ~~P~~ **Exponent Simplification**
Simplify the 6th root of y cubed.

y to the 1/2 power (or square root of y)

2 **Gases**

In what kind of gas would these things be true?
It would consist of molecules that occupy negligible space and have negligible forces between them. All collisions between molecules and the wall of the container would be perfectly elastic because the molecules would have no means of storing energy except as translational kinetic energy.

ideal (gas)

3 **Rejections**

People of what nationality mostly voted against reunification of Cyprus in 2004?

Greek

4 **Latin Americans**

Heitor Villa-Lobos, Pele, and Pedro Cabral are all directly associated with which South American country?

Brazil

Brazil

5 **Central American Geography**

In 1992, the World Court finally ended a century-old border dispute between Honduras and what country to its west?

El Salvador

6 **Gems**

What enormous gems that are transparent varieties of beryl weighing up to 16 pounds have been unearthed in Colombia?

emeralds

emeralds

7 **Bones**

Bones of the pectoral girdle include the clavicles and the ...

shoulder blades
scapulas or

8 Novels

In what novel does a wounded Confederate soldier named Inman make his way back to North Carolina while Ada manages Black Cove Farm with the help of a young girl named Ruby?

Cold Mountain

9 Naval History

Commander Lloyd Bucher was almost court-martialed for surrendering what vessel to the North Koreans in 1968 and for signing an admission that his ship was in North Korean waters on an intelligence mission?

(U.S.S.) Pueblo

10 Lines

What kind of lines have slopes that are negative reciprocals of each other?

Lines intersecting at a 90° angle.

perpendicular

11 Expressions

How many alternatives are there in a situation described as a "Hobson's choice"?

none (1 choice, no alternatives)

12 Operas

What novel by Herman Melville about a seaman pressed into service aboard the HMS Bellipotent was adapted into an opera by Benjamin Britten?

Billy Budd

13 Invasions

In 1989, the U.S. invaded Panama and ousted what president?

(Manuel) Noriega

14 Background Radiation

The most significant source of background radiation in the U.S. is what gas formed by the decay of radium?

radon

15 Sound

What effect arises from the relative motion of the listener and the source of a sound?

Doppler (effect)

16 Real Estate

What adjective indicates a title to a piece of property that is free from any encumbrance, obstruction, burden, or limitation?

clear

17 Poetic Parodies

This is a parody of what Robert Frost poem?
Something there is that doesn't love a test,
That sends the frozen mind-set under it
And spills the grade objectives in the room,
And makes gaps students often fall between.

Mending Wall

18 Aborted Plans

What plan named for a town in New York and drafted by Benjamin Franklin provided for a federal union of the mainland colonies under the British Crown?

19 Nutty Math

Mr. Nutley sells a nut mixture consisting of $\frac{1}{3}$ pecans and $\frac{2}{3}$ cashews. Pecans cost 3 times as much as cashews. Since a pound of the mixture costs him 40 cents, how much did he pay per pound of cashews?

Albany (Plan)

24 cents

pecans
12¢

20 River Modification

In the late 1890s, the U.S. Army Corps of Engineers built 49 locks and movable dams on 980 miles of what river between Pittsburgh, Pennsylvania, and Cairo, Illinois?

Cairo

Ohio (River)

21 Desert Botany

What agave plant got its name erroneously because it was believed to bloom only when 100 years old?

century (plant)

22 China

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

Manchoose

23 Phrases

What word is modified by the ^{adjective} adjectival phrase in this example?
A painting of a great auk sold for a small fortune at last week's auction.

Manchuria

painting

24 Mining

Chemist Herman Frasch developed a method for extracting what pale yellow nonmetallic element from deposits deep underground?

sulfur

25 Disease Prevention

In 2004, the FDA attempted to prevent the spread of what disease by prohibiting the feeding of chicken waste and cow blood to cattle and by banning the use of dead or injured cows in the manufacture of cosmetics, soups, and dietary supplements?

Bovine Spongiform Encephalopathy
(BSE) or
Creutzfeld-Jakob (disease)
or
mad cow/disease

26 French Novels

This is from what story?
Jean admitted he had committed a blameworthy act; that the loaf of bread would probably not have been refused to him had he asked for it.

Les mis
or
Les Miserables

27 Sports

The first Army-Navy football game was held in 1890. It began a long rivalry between academies located at West Point and ...

Annapolis West Point
Maryland.

28 Angles

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

half or $\frac{1}{2}$

29 Force

What force is practically independent of the area of contact between two surfaces but is directly proportional to the force pressing the two surfaces together?

friction

30 Theater

A large curtain hung at the back of a stage and painted to represent a scene is called a ...

backdrop (drop, drop curtain)

Score
31 Dynastic Demises

The Romanov dynasty that controlled Russia for 300 years came to an end during what war?

World War I

32 Research Studies

The same individuals are observed at different points in time throughout extended parts of their lives in what kind of study?

longitudinal (study)

33 Amendments

This quote by a British attorney in 1640 relates to which amendment?
It is contrary to the laws of God, nature, and the kingdom, for any man to be his own accuser.

U.S.

5th (Amendment)

34 Namesakes

What kind of rock formation in which diamonds are found was named after a community in South Africa?

kimberlite

35 Writing

What literary technique is illustrated in this excerpt by Samuel Johnson?
He that voluntarily continues ignorance is guilty of all the crimes which ignorance produces, as to him that should extinguish the tapers of a lighthouse might justly be imputed the calamities of shipwrecks.

analogy

36 Civil Rights

In 1964 as part of the Freedom Summer activities in Mississippi, hundreds of students came to that state to register voters. Three of those killed during that effort included Michael Schwerner, Andrew Goodman, and James ...

Chaney37 Dice

You toss 12 dice on a table and 1 rolls off onto the floor. The 11 on the table all have a 5 on top. When you pick up the 12th die and toss it on the table, what is the probability that it also will come up 5?

(or 0.16) 16 2/3 %

1 in 6

38 Borrowed Words

These words originated in what language?
charisma, criterion, dogma, electron

Greek

39 Wings

Horizontal stabilizers are usually at the tail of an aircraft. What is the name for small horizontal stabilizing surfaces forward of the main wing?

canards

40 Mexico History

What Zapotec Indian became leader of "La Reforma," fought the French-supported regime of Maximilian, and became president of Mexico in 1857, a position he held until his death?

(Benito Juarez)

41 Taxonomy

Prokaryotic cells are characteristic of which of the ~~taxa~~ taxonomic kingdoms?

Monera (monerans)

42 Geological Understanding

What is the "competing hypothesis" indicated in this passage?

Only in the last forty years have we discarded the prevailing wisdom that the continents and ocean basins have always been in the same geographical locations. The competing hypothesis has permitted us a far greater understanding.

continental drift (plate tectonics)

4 3 Legal Vocabulary

A written argument containing all the pertinent facts about a legal case presented by an attorney to a court for the purpose of informing and persuading is called a ...

brief

4 4 American Novels

This is the last line of what novel?
He would be there all night, and he would be there when Jem waked up in the morning.

To Kill a Mockingbird

4 5 FDR

No proposal in Franklin Roosevelt's twelve years as president aroused such bitter opposition as his 1937 plan to add how many justices to the Supreme Court?

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*Alt 1 Color

A light value of a color such as a light red, as opposed to a shade which is a dark value, is called a ...

tint

f+p
*Alt 2 Primes

If the sum of seven consecutive integers is 1617, how many of those numbers are prime?

2

*Alt 3 Respiratory Diseases

lung
Emphysema is a disease associated with the swelling of air sacs *one* ~~in the lungs~~ called ...

alveoli

*Alt 4 Sound

What musical term is a synonym for "overtone" in the study of acoustics?

harmonics

*Alt 5 Ranks

What is the highest army rank in countries such as Britain, France, Germany, Russia, and China?

marshal (field marshal)

*Alt 6 Historic Cotton Mills

What state is the site of the historic Slater Mill in the town of Pawtucket?

Rhode Island

*Alt 7 Tense

What tense is illustrated below?

He will have been painting for over twelve years before he opens his first exhibit early next winter.

future perfect progressive