



Pristine #249 HS

★ 8014  
Computer  
problems  
fix in 1/2 min  
call for test  
one

# Minnesota Service Cooperatives Knowledge Bowl

Round # 1

8/4/04

© Academic Hallmarks

1 **Gases**

The three volcanic gases that pose the greatest potential hazard to people, animals, and agriculture include hydrogen fluoride, carbon dioxide, and what other dioxide?

sulfur dioxide

2 **Novel Quotations**

What character says this?

As God is my witness, I'm never going to be hungry again.

Scarlett  
Scarlett (O'Hara)

3

**Square Root**

What is the square root of 30.25?

5.5

11 halves  
+ 5 1/2

4 **Civil War**

The slave states of Missouri, Kentucky, Maryland and Delaware that remained in the Union politically but contributed large numbers of troops to both sides are known as what states?

border states

5 **Geographical Descriptions**

This is about part of what country?

Across Cook Strait is South Island, with its high ridge of mountains, the Southern Alps.

New Zealand

6 **The Executive Branch**

Name the highest-ranking member of the Executive Office of the U.S. president.

White House chief of staff

7

**Find de Number**

If 4 is added to twice a number and the sum is multiplied by 2, the result is the same as if the number is multiplied by 3 and 4 is added to the product. What is the number?

Grad  
slow

**8 Insects**

What very common order of insects have their forewings modified into two curved plates called elytra that cover and protect their delicate hindwings?

beetles (Coleoptera)

**9 Explorers**

He was born in Florence in 1452 and worked in the Seville business that fitted out Columbus' second expedition. He led four voyages to the New World and touched the mainland a few weeks before Cabot and fourteen months before Columbus. It was not without reason that Waldseemuller in 1507 proposed to call the new continent by his name. Who was he?

(Amerigo) Vespucci

**10 Traditional Musical Instruments**

Didgeridoos are instruments traditionally played in what country by aborigines?

Australia

**11 Footnotes**

In footnotes, what is the meaning of "ff."?

*ff period*

(the) following pages

**12 Creepy Fantasy**

In what tale by Ray Bradbury are there handbills and posters advertising the coming "Cooger and Dark's Pandemonium Shadow Show"?

Something Wicked This Way Comes

**13 A Hair Affair**

What hairstyle is named after one of the tribes in the Indian confederacy known as the League of Five Nations?

Mohawk

**14 Subatomic Physics**

The most common hadron is a baryon with an electric charge of +1. It has a basic structure of two up quarks and one down quark bound together by gluons. Name this particle that is also the nucleus of a hydrogen atom.

proton

15 **Maritime Poetry**

What phenomenon is indicated in the first line of this maritime ditty?  
 Mares' tails and mackerel scales  
 Make lofty ships carry low sails.

scoreclouds16 **Thinking**

Name the type of thinking involved when people try to narrow down possibilities and reach a single best solution or answer to a problem.

convergent (thinking)17 **Settings**

The main setting for "The Music Man" is ~~in~~ what fictitious Iowa town?

River City18 **Crossings**

In 1950, Chinese forces crossed into Korea over what river?

Yalu (River)19 **Punishments**

What sentencing alternative requires the offender to spend some time working for a public or non-profit agency?

Sentence to serve, or  
community service20 **Poetic Passages**

One of the lines in Kipling's poem, "If," concerns filling the unforgiving minute with how many seconds' worth of distance run?

P + PTriangles

In triangle ABC, if C squared has a value less than A squared + B squared ~~where C is the longest side~~, then you have what kind of triangle?

the longest side.60acute

**2 2 Corporations**

In 1808, who incorporated the American Fur Company with himself as the sole stockholder?

(John Jacob)  
(John) Astor

**2 3 River Mouths**

Name the second-largest river that flows into the Gulf of Mexico.

Rio Grande

**2 4 Free at Last**

In 2004, Mordechai Vanunu was released after serving his 19-year prison sentence for revealing secrets relating to what country's nuclear weapons program?

Israel's

**2 5 Evidence**

Any document, material, or object used as evidence in a trial is called an ...

exhibit

**2 6 Energy**

What kind of energy is defined as one-half the mass times the velocity squared?

kinetic (energy)

**2 7 Wars**

In 1992, President Bush and Boris Yeltsin formally proclaimed the end of what war?

Cold (War)

**2 8 Constellations**

By its very name, you can guess that the constellation Vulpecula is supposed to look like what small quadruped?

fox

## 29 Borrowed Titles

The title of Steinbeck's "Grapes of Wrath" was borrowed from what song by Julia Ward Howe?

Battle Hymn of the Republic

30 <sup>prob</sup> Probability

When you toss a coin and roll a single die, what is the probability of getting tails and a four?

(0.083)

1/12 (or 1 in 12)

~~31~~ <sup>Score</sup> Maritime Tragedies

What American warship was torpedoed in the Indian Ocean three days after delivering essential components of the atomic bomb to Tinian Island?

*Tinian!*

(U.S.S.) Indianapolis

## 32 The Mesozoic Era

During the Mesozoic Era, reptiles spread over most of the land. This was greatly facilitated by the fact that all the land was essentially joined together in "one world" called ...

Pangaea

## 33 American Artists

Who painted these works?

Saying Grace  
The Golden Rule  
Girl at Mirror  
Triple Self-Portrait  
The Marbles Champion  
Freedom from Want  
Freedom from Fear

(Norman) Rockwell

## 34 Neurons

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

axon

## 35 Rivers

What two great rivers of Montana flow in a northeasterly direction?

Missouri, Yellowstone

**3 6 Philippine History**

Corazon Aquino opposed whom in a 1986 Philippine presidential election?

(Ferdinand) Marcos

**3 7 Infant Care**

The formation of a powerful emotional tie between a parent and a new baby is called ...

bonding

**3 8 Breaking Up is Hard to Do**

Sarah Helen Whitman, a Rhode Island poet, broke her engagement to Edgar Allan Poe, inspiring him to write what poem?

To Helen

3 9

**Percentage of Error**

What is the percentage of error to three significant figures if a 60-degree angle is erroneously measured at 62 degrees?

3.33%

**4 0 Spies**

The most high profile mole of recent years was a longtime CIA employee arrested in 1994 and convicted of spying for the Russians. His name is Aldrich ...

Ames

**4 1 Chemical Mixtures**

Mixtures may be classified as homogeneous or ...

heterogeneous

**4 2 Types of Sentences**

Classify this sentence by its structure.

All my life, I always wanted to be somebody, but now I see that I should have been more specific.

compound-complex

4 3 **Hawaiian History**

In 1891, Hawaii's King David Kalakaua died and was succeeded by his sister who reigned until 1893. Name her.

Liliuokalani

*Queen Lili*

4 4 **Pardons**

A state governor can issue pardons and commute sentences in cases that do not involve impeachment or ...

treason

4 5 **19th-century Advisors**

These officials worked with what president?

Robert Toombs - secretary of state

John C. Breckinridge - secretary of war

Judah Benjamin - attorney general

Alexander Stephens - vice president

(Jefferson) Davis



**\*Alt 1 Christmas Tales**

What story by Charles Dickens is about a singing match between a teakettle and a cricket?

(The) Cricket on the Hearth

**\*Alt 2 Geologic Folds**

In what kind of fold of crustal material are the limbs higher than the center?

syncline

**\*Alt 3 Mountains**

Mt. Elbrus, the highest peak in the Caucasus Mountains, is situated between what two seas?

Black Sea Caspian Sea

**\*Alt 4 Pancreatic Juice**

In addition to amylase, lipase, and nuclease, pancreatic juice contains trypsin, chymotrypsin, and carboxypeptidase which function to convert proteins into what kind of acids?

amino acids

**\*Alt 5 Physical Properties**

The characteristic sheen of a clean metal surface is called metallic ...

luster

**\*Alt 6 Territorial Expansion**

The main purpose of what territorial purchase in 1853 was to allow the construction of a southern transcontinental railroad route that ended up never being built?

Gadsden Purchase

**\*Alt 7 Simultaneous Equations**

$2x + 3y = 19$  and  $6x - 3y = 21$ . What are the values of  $x$  and  $y$ ?

$$x = 5 \text{ and } y = 3$$