

KAEOPP

Round # 1

2010

1 Geometric Solids

What solid is a polyhedron with one base which is any polygon and additional faces which are triangles with a common vertex?

pyramid

2 Sonnets

What is the opening sentence of the sonnet that ends with these lines?

I love thee with a love I seemed to lose
With my lost saints - I love thee with
the breath,
Smiles, tears, of all my life! - and,
if God choose,
I shall but love thee better after death.

How do I love thee?

3 Ballet

In ballet, what is a "pas de trois"?

a dance for 3 dancers

4 Engines

Name the simplest of all jet engines that do not use turbines or compressors but rely on forward motion to force air into their combustors.

ramjets

5 Proverbs

According to this proverb, nobody can love and be what at the same time?

Amar y saber no puede ser.

wise (intelligent)

6 Triangles and Inequalities

What is the possible range of values for the third side of a triangle with sides of 5 and 7?

$2 < x < 12$ (or $x > 2 < 12$)

7 Valley Songs

The valley in this lyric is in what state?

Oh, Shenandoah, I long to hear you,
Away, you rolling river
Oh, Shenandoah, I long to hear you
Away, I'm bound away, cross the wide Missouri.

Virginia (and/or West Virginia)

8 Ancient Geography

What single enormous continent was once surrounded by Panthalassa?

Pangaea

9 German Literature

Translate this German title.

Neue Gedichte

New Poems

10 Emerging Technology

What branch of technology is devoted to designing and producing extremely small devices built from individual atoms and molecules?

nanotechnology

KAEOPP

Round # 1

2010

11 Pilots

In 2009, the remains of Michael Scott Speicher were found. Mr. Speicher was the first American combat casualty in what war?

Gulf War

12 Poems

This is from what poem by T.S. Eliot?
Shall I part my hair behind? Do I dare
to eat a peach?
I shall wear white flannel trousers,
and walk upon the beach.
I have heard the mermaids singing,
each to each.

The Love Song of J. Alfred Prufrock

13 Stars

Since the age of the universe has been calculated to be a mere 13.7 billion years old, astronomers say there has not yet been sufficient time for what hypothetical stellar remnants to form?

black dwarfs

14 Curves

Galileo erred when he said that the curve of a chain hanging under gravity would be a parabola. What is the correct name for that kind of curve?

catenary (hyperbolic cosine)

15 Insect Pests

The larvae of what small, grayish moth is particularly destructive to apple, walnut, and pear trees?

codling moth

16 Glaciers

What is the collective name for the loss of snow in glaciers by melting, evaporation, sublimation, deflation, and calving?

ablation

17 Plans Abandoned

In 2009, after nearly \$14 billion and 25 years of effort, the Obama administration essentially terminated development of America's only permanent geologic repository for nuclear waste at what site in Nevada?

Yucca Mountain

18 Surveying

What survey unit set by the Ordinance of 1787 for western lands contains 36 sections?

township

19 Folklore

In medieval European folklore, who is the king of the fairies?

Oberon

20 Handy Latin Phrases

What three Latin words that refer to an indispensable component literally mean "without which nothing"?

sine qua non

KAEOPP

Round # 1

2010

21 Battles

The Battle of Manila Bay was the first engagement in what war?

Spanish-American War

22 Scientific Devices

The ---- is an electronic instrument that gives a visual indication of a signal wave form.

oscilloscope

23 Prisoners

These people all spent some time in what prison?
Guy Fawkes, Thomas More,
Anne Boleyn, Walter Raleigh

Tower of London

24 Symbols

A masterpiece of wood sculpture hangs in a place of honor in Boston's State House. This carving depicts what kind of fish?

cod

25 Dance

What Spanish dance in 3/4 or 3/8 time was named after the town of Malaga?

malaguena

26 Syllogisms

What kind of syllogism is illustrated below?
P or Q
Not P.
Therefore Q.

disjunctive syllogism

27 Regular Polygons

Each exterior angle of a regular polygon is 5 degrees. This figure has how many sides?

72

28 Mariana Island Bases

During World War II, the American base at Tinian Island was laid out in a pattern resembling Manhattan. A large, undeveloped square was called Central Park and the region called "The Village" was named after what residential section of New York City?

Greenwich Village

29 Height Problems

To the nearest meter, what is the height of a pole if you are standing 100 meters from the pole and the angle subtended by the top of the pole with the ground is 30 degrees?

58

30 Conjunctions

These sentence beginnings illustrate what type of conjunctions?
-As long as there are toads
-Now that we have gilded the lilies
-In order that nobody gets stranded
-Even if you do hand in your assignment

subordinating conjunctions

KAEOPP

Round # 1

2010

31 Chaucer

During what month did Chaucer's pilgrims begin their journey to Canterbury?

April

32 Sports History

What traditional Olympic event is related to a legend about a Greek messenger who, in 490 B.C., ran some 26 miles from a battlefield to Athens to deliver news of a victory over the Persians?

marathon

33 Organic Acids

The three main categories of fatty acids include saturated, monounsaturated, and ...

polyunsaturated

34 Dance

This dance in 3/4 time evolved from the Austrian "Landler" and "Teutsche." It became popular first in Austria and Bohemia and then throughout all of Europe. Name it.

waltz

35 Adverbs

While "always" and "rarely" are adverbs of frequency, how are these adverbs classified?
eagerly, patiently, quietly, carefully, loudly

adverbs of manner

36 Solids

You paint the outside of rectangular solid with dimensions of 3 by 3 by 5 feet and then cut that solid into one-foot cubes. How many of the blocks will not be painted on just two sides?

25

37 Dance

An allemande is in either duple or quadruple time while a polonaise is in triple time. Waltzes are in what time?

triple

38 Drama

This is from what Arthur Miller play?
I gotta show those pompous, self-important executives over there that Hap Loman can make the grade. I want to walk into the store the way he walks in. Then I'll go with you, Biff.

Death of a Salesman

39 Truth Tables

Assume that p is true and q is false. What is the truth value of the conjunctive statement "p and q"?

false (or 2)

40 Nominals

A nominal that follows another nominal, identifying, explaining, enhancing, or clarifying it is an ...

appositive

KAEOPP

Round # 1

2010

41 Drainages

Name either of the easternmost U.S. states that partially drain into the Columbia River basin.

Wyoming (or Montana)

42 Painting Styles

Name the school of art characterized by the paintings of Rene Magritte and Salvador Dali.

surrealism

43 Hydrothermal Veins

What is the most common sulfide mineral in or near ore veins containing gold?

pyrite

44 Architectural Orders

It resembles the Ionic order but its capitals are decorated with carvings of the acanthus leaf. Name the last of the three orders of Greek columns.

Corinthian

45 An Economist's Perspective

Adam Smith described what country as "a nation of shopkeepers"?

Great Britain (England)

46 Phoolish Phrases

How many prepositional phrases are in this line from a Woody Allen movie?

I object, Your Honor. This trial is a travesty. It's a travesty of a mockery of a sham of a mockery of a travesty of two mockeries of a sham!

6

47 Pythagorean Identities

The cosine squared of theta plus the sine squared of theta equals ...

1

48 Historical Poetry

This is from what poem?

Flash'd all their sabres bare, / Flash'd as they
turn'd in air, / Sabring the gunners there, /
Charging an army, while all the world wonder'd.
Plunged in the battery-smoke / Right thro' the
line they broke; / Cossack and Russian reel'd
from the sabre stroke / Shatter'd and
sunder'd. / Then they rode back but not the
six hundred.

The Charge of the Light Brigade

49 Subatomic Physics

What subatomic particle consists of two down quarks and one up quark?

neutron

50 Leader Maladies

In 2009, it was reported that what disputatious Asian dictator was suffering from pancreatic cancer?

Kim Jong-il

KAEOPP

Round # 1

2010

51 Foreign Cliches

How is this French cliché usually stated in English?

A la guerra, con la guerra.

Fight fire with fire.

52 Mining

Placer deposits typically contain a high percentage of black sand largely consisting of what ferromagnetic mineral otherwise known as iron oxide?

magnetite

53 Park Places

By their names, you can surmise that these parks are in what European country?

De Weerribben National Park

Veluwezoom National Park

Oosterschelde National Park

De Groote Peel National Park

Schiermonnikoog National Park

Netherlands

54 Nonfiction

This is the subtitle of a book about what World War II death camp in which the author was forced to work for Dr. Josef Mengele?

True Tales from a Grotesque Land

Auschwitz

55 Parodies

These lyrics are a parody of what Stephen Foster song?

Q-Tip, ear reamer, clean out the dirt

I can't get in there by using my shirt

Sounds are all muddled, from all the wax

Which sometimes is handy when I play the sax.

Beautiful Dreamer

56 Accords

As part of the Camp David Accords, Egypt gave Israel access to the Suez Canal, the Strait of Tiran, and what gulf between the Sinai Peninsula and northwest Saudi Arabia?

Gulf of Aqaba

57 Bonding

The forces that hold atomic particles together include van der Waals forces and three types of bonds including covalent, ionic, and ...

metallic

58 Desert Flora

What type of yucca plant found in the Mojave Desert was so named because pioneers thought it resembled the raised arms of an Old Testament patriarch leading them to the promised land?

Joshua Tree

59 Cube Roots

What is the cube root of $x^3 - 3x^2y + 3xy^2 - y^3$?

$x-y$

60 Cones

In terms of pi, what is the volume of a cone with a radius of 6 meters and a height of 10 meters?

120 pi cubic meters

***Tie Breaker Only Forces**

A 50-pound wagon is on a 30-degree hill. The force pushing the wagon downhill is how many pounds?

KAEOPP

Round # 2

2010

1 Parks

Name the only national park in New England.

Acadia National Park

2 Special Electronic Systems

The TCAS II is an electronics safety system designed to prevent what type of accidents?

aircraft collisions

3 Shadows

The length of a shadow cast on the ground is proportional to what trigonometric function of the Sun's elevation angle?

cotangent

4 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

5 Forces

Tangential forces multiplied by the radius equals what force?

torque

6 Novel Beginnings

This is the first line of a novel by whom?

This is the story of a lover's triangle,

I suppose you'd say--Arnie Cunningham,

Leigh Cabot, and, of course, Christine.

But I want you to understand that Christine

was there first. She was Arnie's first love.

Stephen King

7 Backing Up

A car is backing down a driveway. Its velocity changes from -2 meters per second to -9 meters per second in a 2 second interval. Find its acceleration.

-3.5 meters/second squared

8 Greek Dramatists

While Aeschylus, Sophocles, and Euripides are known for their tragedies, who is the greatest Greek playwright known for his comedies?

Aristophanes

9 African National Languages

What official language is common to Guinea-Bissau, Cape Verde, Mozambique, and Angola?

Portuguese

10 Journalism

This is part of a famous example of what kind of article in a newspaper?

Yes, Virginia, there is a Santa Claus.

He exists as certainly as love and

generosity and devotion exist, and

you know that they abound and give

to your life its highest beauty and joy.

editorial

KAEOPP

Round # 2

2010

11 Myron

What is the popular name for one of Myron's ancient sculptures entitled "Discobolus"?

The Discus Thrower

12 Misjudgments

What U.S. Olympic athlete said this in 2009 following widespread circulation of a photo?

I'm 23 years old, and despite the successes I have had in the pool, I acted in a youthful and inappropriate way, not in a manner that people have come to expect from me. For this, I am sorry. I promise my fans and the public - it will not happen again.

Michael Phelps

13 Painting

The wooden frame to which a canvas is fixed prior to painting is the ...

stretcher

14 Some Expression

What is the expression for the sum of the integers from 1 to n below?

$$1 + 2 + 3 + 4 + \dots + n$$

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

15 Truth Tables

Consider a truth table for the statement, "p or q." In how many of the possible combinations of p and q may the compound statement be true?

16 Painters

What modern Spanish painter is known as "El Maestro"?

Pablo Picasso

17 Novels

This is from what James Michener novel?

Therefore, men of Polynesia and Boston and China and Mount Fuji do not come to these islands empty-handed. In these islands there is no certainty. Bring your own food, your own gods, your own flowers and fruits and concepts. For if you come without resources to these islands you will perish. On these harsh terms the islands waited.

Hawaii

18 Architectural Wonders

Modern architects marvel how their sixth century counterparts could have designed the "impossibly high and wide" domed ceiling of what famous church in Istanbul?

Hagia Sophia

19 Ballet

In ballet, what is a "pas de deux"?

a dance for two

20 Allies

Name the northwesternmost African NATO ally.

Morocco

21 American Writers

What political philosophy was championed by Upton Sinclair and promoted in his book, "The Jungle"?

socialism

22 Reproduction

The maximum reproductive capacity of a population under optimum environmental conditions is called biotic ...

potential

23 Dance

Traditionally, the male dancers in a square dance are addressed using what clipped word?

gents

24 Pulleys

You have a 100-kilogram block attached to a single pulley. One end of the rope supporting the pulley is fixed to the ceiling, and you are pulling up on the other end. In newtons, how much force must you exert to lift the block?

490

25 Technological Developments

In 1834, Jacob Perkins allowed a volatile liquid to evaporate and absorb heat from its surroundings and then he compressed the vapor, turning it back to a liquid, giving off heat. What had Perkins invented?

refrigeration (a refrigerator)

26 Asian Leaders

What advocate of democracy, peace, and women's empowerment who died in 2009 had served as the first female president of the Philippines?

Corazon Aquino

27 Twain's Tales

This is from what Mark Twain story?

There was a feller here once by the name of Jim Smiley. He was the curiousest man about always betting on any thing that turned up, if he could get any body to bet on the other side. If there was a dog-fight, he'd bet on it; if there was a cat-fight, he'd bet on it; if there was two birds setting on a fence, he would bet you which one would fly first.

Celebrated Jumping Frog of Calaveras County

28 What's in a Name?

Squire Alworthy in "Tom Jones," Daddy Warbucks in "Little Orphan Annie," and Shakespeare's Benvolio and Malvolio all have names relating to their personal characteristics. Such names are called ...

charactonyms (characteronyms)

29 Sentence Types

Classify this statement according to its structure.

The president's rhetoric is impressive, but his statement affirms we will continue to do business as usual in Washington regarding earmarks in appropriations legislation.

compound

30 Sentence Patterns

What sentence pattern is illustrated in this line?

Sarah called her brother an idiot.

subject-verb-object-object complement

KAEOPP

Round # 2

2010

31 Sculpture History

Auguste Rodin was commissioned by the Museum of Decorative Arts in Paris to sculpt a monumental door based on what work by Dante?

The Divine Comedy (The Inferno)

32 Environmentalists

What American marine biologist and author of several influential books on ecology wrote this?

Chemicals are the sinister and little recognized partners of radiation in changing the very nature of the world. Non-selective chemicals have the power to kill every insect and still the song of birds and the leaping of fish in the streams.

Rachel Carson

33 Acids

Name either of the two acids used commercially in the production of the explosive compound in dynamite.

nitric, sulfuric

34 End of the Trail Grammar

What grammatical mood is illustrated in this line, said to be Kit Carson's last statement?

I just wish I had time for one more bowl of chili.

subjunctive

35 Chordates

At least at some stage of development, a common characteristic of all chordates is a rigid rodlike structure of supporting cartilage called a ...

notochord

36 Laws on the Books

Mostly circumvented since its passage in 1973, every president has acted as though what legislative act relating to the commitment of U.S. troops abroad is unconstitutional?

War Powers Act (or Resolution)

37 Paleontology

Over 2.7 billion years ago, blue-green algae began forming intertidal pedestals called ...

stromatolites

38 Science History

What medieval science is suggested by the title, "Harry Potter and the Philosopher's Stone"?

alchemy

39 Far-Away Geysers

On Neptune's moon, Triton, scientists have observed erupting fountains of what liquefied gas?

nitrogen

40 Greasing

Private Sack can grease a tank in 5 hours while Private Bailey needs 10 hours to complete the same job. How long will it take to grease one entire tank if they work together?

3.3 (or 3 1/3) hours

KAEOPP

Round # 2

2010

41 Inscribed Polygons

A quadrilateral is inscribed in a circle. Its sides divide the circle into arcs with measures in the ratio of 1 to 2 to 3 to 4. How many degrees are in the largest arc?

144

42 Ancient Defeats

After a decisive defeat at the Battle of Salamis, what Persian king had to withdraw most of his forces from Greece?

Xerxes

43 Wheels of Justice

In 2009, Argentine courts upheld the decision to charge several former military officers with war crimes in a war that was concluded 27 years earlier with what country?

Great Britain

44 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

45 Art History

Two of the most famous Mexican artists were married to each other. One was Frida Kahlo. The other, known for his murals, was ...

Diego Rivera

46 Big Buildings

Name the building assembled in 1851 to house the Great Exhibition in London that looked like a gigantic greenhouse of iron girders and glass.

Crystal Palace

47 Vocatives

What is the vocative in this example?

Frank, exactly what hump are you referring to?

Frank

48 Accusations

In 2009, what extraordinarily influential member of the majority in the House of Representatives accused the CIA of routinely lying to Congress?

Nancy Pelosi

49 Criminal Investigations

The investigative method of examining apparently related crimes to get a general picture of an unknown offender may involve organizing clues such as the times and locations of crimes, weaponry, victim characteristics, and offender idiosyncrasies. This method is called criminal ...

profiling

50 Dissent

Though they were later persecuted or killed, many were encouraged to criticize the government after who uttered these words in 1957?

Letting a hundred flowers blossom and a hundred schools of thought contend is the policy for promoting progress in the arts and the sciences and a flourishing socialist culture in our land.

Mao Zedong

KAEOPP

Round # 2

2010

51 Off on a Tangent

The angle of elevation from point A to the top of a pole measures 42 degrees. Point A is 25 meters from the base of the pole. Given that the tangent of 42 degrees is .9004, what is the height of the pole?

22.5 meters

52 Area

What is the lateral area of a regular triangular pyramid with base edge 3 centimeters and slant height 4 centimeters?

18 square centimeters

53 Careers in Art

A person involved in the shaping and arranging of a garden or a tract of land is involved in what type of architecture?

landscape architecture

54 Chemical Reactions

What is another name for a single-replacement reaction?

single displacement reaction

55 Famous Trails

What mountain pass between Dyea, Alaska and Bennett Lake, British Columbia gave prospectors access to the Klondike during the gold rush in the late 19th century?

Chilkoot Pass

56 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

57 At Least They Both Start with A

After disappearing for several days in 2009, it turned out that the governor of South Carolina was not hiking on the Appalachian Trail but was actually in what country?

Argentina

58 Trigonometry

One leg of a right triangle is 10 feet and the angle between that leg and the hypotenuse is 51 degrees. Given that the cosine of 51 degrees is .6293, what is the length of the hypotenuse, to the nearest tenth-foot?

15.9

59 Volcanoes

These volcanoes are on what peninsula?
Pavlof, Dutton, Fisher, Chiginagak, Ukinrek, Novarupta, Trident, Shishaldin, Katmai

Alaska Peninsula

60 Forms of Poetry

This illustrates what form of poetry?
Chaos reigns within.
Reflect, repent, and reboot.
Order shall return.

haiku

***Tie Breaker Only Asteroids**

Objects in the asteroid belt are classified by their spectra including the S-type which are silicate, the C-type which are carbonaceous, and the M-type which are ...

metallic (metal rich)

KAEOPP

Round # 3

2010

1 Infinitives

What is the subject of the infinitive in this example?
Rodney helped the prisoner escape.

the prisoner

2 Short Stories

These are lines from what Stephen Crane tale?
- "Bail her, cook," said the captain, serenely.
- "A little more north, sir," said the oiler.
- The correspondent, pulling at the other oar,
watched the waves and wondered why
he was there.

The Open Boat

3 Poetic Parodies

This is a verse in response to a poem by what English author?
I feel it when the game is done,
I feel it when I suffer most.
'Tis better to have loved and lost
Than ever to have loved and won.

Alfred Tennyson

4 Tangents

Consider a right triangle with legs of 3 and 4 feet. If A is the angle between the longer side and the hypotenuse, what is tangent A?

.75

5 Hyperbolas

What is the equation of the hyperbola with vertices at (0,7) and (0,-7) and focuses at (0,25) and (0,-25)?

$$\frac{(y \text{ squared})}{49} - \frac{(x \text{ squared})}{576} = 1$$

6 Muses

The Greek Muse of choral singing and dance is ...

Terpsichore

7 Liquids

In the study of liquids, what is another name for wicking?

capillary action (capillarity, capillary motion)

8 Conic Sections

What type of conic section is generated by plotting the points that satisfy this equation?
 $y^2 = 4ax$

parabola

9 Oxides

The oxides of nonmetals are either neutral or ...

acidic

10 Direct Variation

Y varies as the cube root of x and $y = 3$ when $x = 64$.
What is x when $y = 15/4$?

125

KAEOPP

Round # 3

2010

11 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

12 Make 'em Miss

Smoke screens disrupt laser ranging devices. Chaff disrupts radar guidance. Flares dropped from planes counter infrared guidance systems. Any such systems that prevent sensor-based weapons from locking onto a target are called ...

countermeasures

13 Minerals

What form of agate includes greenish filaments suggestive of small, nonvascular plants?

moss agate

14 Dance

The tarantella is a fast dance that originated in what country?

Italy

15 Moon Myths

On the 40th anniversary of the Apollo 11 mission, on "The View," Whoopie Goldberg said she wasn't convinced the Moon landing actually took place because she couldn't figure out who took the pictures of the two astronauts on the lunar surface. Barbara Walters mistakenly replied it was what third astronaut who actually remained in orbit in the command module?

Michael Collins

16 Science Fiction

These are all in what novel by Michael Crichton?
-a maturity gene that accelerates aging
-a speaking orangutan
-genetically altered bioluminescent turtles
-a parrot that helps a boy with his homework

Next

17 Age Problems

A mom is 7 times older than her daughter. In 5 years she will be 4 times older than her daughter will be then. How old is the mom?

35

18 Currency Problems

If the number of \$2 bills you need to buy a toaster is 12 more than the number of \$5 bills needed for the same purchase, how much is the toaster?

\$40

19 Sculpture

The patina that coats a bronze sculpture is what color?

greenish (green)

20 Captives

The Taliban and al-Qaeda fighters held at Guantanamo Bay are not prisoners of war but, instead, have come to be called unlawful ...

combatants (enemy combatants)

KAEOPP

Round # 3

2010

21 The Stuff of Mammals

What substance that makes up the scales of pangolins also comprises claws and fingernails?

keratin

22 Algebraic Applications

You are forming a trough with a rectangular cross section and open top from a sheet of metal bent upward on each long side. The sheet is 30 inches wide. Find the dimensions of the cross section with the largest possible area.

15 x 7.5"

23 Modified Music

New lyrics for what English folk tune are in "Home in the Meadow" in the film, "How the West Was Won" and in the church song, "What Child Is This"?

Greensleeves

24 Chords

Two chords intersect in a circle. At the point of intersection, one chord is divided into lengths of 3 and 4. At that same point, the other chord is divided into lengths of 6 and ...

2

25 Verbals

What kind of verbals begin these sentences?

-Shaken, she stumbled away from the aircraft impact site.

-Smiling, she simply said, "Women are cursed, and men are the proof."

participles

26 Sentence Types

Classify this sentence about the growing unrest in the American colonies?

It may be called silly and mad, but mad people, or persons who have entertained silly and mad ideas, have led the people to rebellion, and overturned empires.

compound complex

27 Appositives

What noun is in apposition to the first pronoun in the Preamble of the U.S. Constitution?

(the) people

28 Musicals

What month is cited in the Broadway song in which these lines appear?

That darling month when ev'ryone throws
Self-control away. It's time to do a wretched
thing or two, and try to make each precious
day one you'll always rue!

May

29 Asian Civil Wars

In 2009, after 26 years of civil war, the president of what Asian country declared victory over the Liberation Tigers of Tamil Eelam?

Sri Lanka

30 Battles

In what island chain did the World War II battles of Attu and Kiska occur?

Aleutians

31 Distance Cues

The binocular cue to distance, based on the fact that the closer an object, the more inward our eyes need to turn in order to focus, is called ...

convergence

32 Shootout Poetry

What name finishes this Robert Service verse?

Then I ducked my head, and the lights went out,
and two guns blazed in the dark; / And a woman
screamed, and the lights went up, and two men
lay stiff and stark; / Pitched on his head,
and pumped full of lead, was Dangerous Dan
McGrew, / While the man from the creeks
lay clutched to the breast of the Lady that's
known as ...

Lou

33 Work Problems

Captain Bligh can flog his entire crew in 30 minutes, but working together, Captain Bligh and Mr. Christian can finish the job in 18 minutes. How long would it take Mr. Christian to do the job alone?

45 minutes

34 French

Translate this saying.

Les murailles ont des oreilles.

The walls have ears.

35 Angles

At 1:20, how many degrees are in the smaller angle between the clock's hands?

80

36 Literary Origins

This line by Dogberry in "Much Ado about Nothing" now refers to members of what modern groups of citizens routinely assembled for a particular purpose?
Are you good men and true?

juries

37 Poetic Settings

The setting for Longfellow's poem, "Evangeline," is during what colonial war?

French and Indian War

38 Borders

The Danube, Sava and Kupa rivers form the northern boundary of what expansive peninsula in southeastern Europe?

Balkan Peninsula

39 Musicals

What character in "Camelot" sings this?

Tra la! It's May!
The lusty month of May!
That darling month when ev'ryone throws
Self-control away.
It's time to do
A wretched thing or two,
And try to make each precious day
One you'll always rue!

Guenevere

40 Molecular Mass

To the nearest whole number, what is the molecular mass of glucose?

180

KAEOPP

Round # 3

2010

41 Trinomials

What fraction must be added to x squared + $5x$ to make a perfect square trinomial?

25/4

42 Verbs

Some form of what helping verb appears in most sentences in the passive voice?

be (to be)

43 Gypsum

Name the fine-grained translucent variety of gypsum used in sculpture.

alabaster

44 Curves

Although colloquially, it is called a spiral staircase, because of its three dimensions, it should be called what kind of staircase?

helical staircase

45 Trigonometry

A tower casts a 160-foot shadow when the angle of elevation of the Sun measures 20 degrees. Given that the tangent of 20 degrees is .3640, to the nearest foot, how high is the tower?

58 feet

46 Circulatory System

With a diameter of about 3 centimeters, the largest vein in the body is the inferior ...

vena cava

47 Atomic Physics

When dropping from a higher energy level to a lower one, what massless elementary particle is emitted by the electron of a hydrogen atom?

photon

48 Trigonometric Word Problems

You spot a cliff, the top of which subtends an angle of 60 degrees with the ground point where you are standing. Since you know the cliff to be 35 meters high, to the nearest meter, how far are you from its base?

20 meters

49 Lagoons

The Venetian Lagoon is an enclosed bay adjacent to what sea?

Adriatic Sea

50 Age Problems

Amy is six years older than Beau. How old is she now if six years ago she was twice as old as him?

18

KAEOPP

Round # 3

2010

51 Petrified Wood

There is an abundance of petrified wood in the Petrified Forest of Arizona and the Ginkgo Petrified Forest in ...

Washington

52 Big Cash Infusions

When the massive 2009 "stimulus package" was passed by the U.S. Senate, journalists found that how many senators had actually read the proposed legislation prior to voting on it?

none

53 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)

54 Tangents

The angle of elevation from point A to the top of a tree measures 38 degrees. Point A is 40 meters from the base of the tree. Given that the tangent of 38 degrees is .7813, to the nearest meter, what is the height of the tree?

31 meters

55 Obverse Statements

What is the obverse of this statement?
Every error is excusable.

No error is inexcusable.

56 Paint

The liquid constituent of a paint in which the pigment is suspended is the ...

medium

57 Geologic Geograp0hy

What is the collective name for these landmasses?
Kenorland, Columbia, Rodinia,
Pangaea, Laurasia, Gondwana

supercontinents

58 Jailbreaks

What Public Enemy Number One escaped from jail in Lima, Ohio, and again in 1934 from the "escape-proof" county jail in Crown Point, Indiana?

John Dillinger

59 Mexico

Name any Mexican state whose name begins with the letter "S".

Sonora, Sinaloa, San Luis Potosi

60 Sentence Parts

What is the subject complement in this line?
The formerly expansive gardens of the palace
were unkempt and looked nearly dead.

dead

*** Tie Breaker Only Short Stories**

This is from a short story by whom?

Well, thish-yer Smiley feller ketched a frog one day, and took him home, and said he cal'klated to edercate him; and so he never done nothing for three months but set in his back yard and learned that frog to jump.

Mark Twain

KAEOPP

Round # 4

2010

1 Verbs

What is the modal verb in this line?
I always wanted to be somebody, but
I should have been more specific.

should

2 Financial Geography

What Australian city is the nation's main port and chief financial center?

Sydney

3 Parallelograms

If the height of a parallelogram is 5 feet more than its base and its area is 36 square feet, what is its height?

9 feet

4 Folk Dance

These are traditional folk dances of what European country?

Chodzony
Krakowiak
Oberek
Mazurka

Poland

5 Prisons

The most famous captive held in the French prison of Chateau d'If was what fictional prisoner created by Alexandre Dumas?

Edmund Dantes (Count of Monte Cristo)

6 Thoreau

Thoreau's speech in Concord entitled "The Rights and Duties of the Individual in Relation to Government" was the basis for his later famous essay on what topic?

civil disobedience

7 Primitive Medicine

What voracious annelids were once routinely used in the ancient medical practice of bleeding?

leeches

8 Mythical Disciplinarians

In Greek and Roman myth, what is the name for the three winged maidens who were goddesses of vengeance and punishment?

Furies

9 Spheres

A sphere's volume varies directly with the cube of its radius. If the volume of a sphere with a radius of three meters is about 113 cubic meters, to the nearest cubic meter, what is the volume of a sphere with a 5-meter radius?

524 (or 523) cubic meters

10 Sculptures

In what city could a tourist see the Trevi Fountain?

Rome

KAEOPP

Round # 4

2010

11 Logarithms

The equation $\log y + \log(y-5) = \log 36$ is satisfied by what value?

9

12 Waterways

Name the 3,000-mile watercourse used by shipping and pleasure vessels along the Atlantic and Gulf coasts of the United States.

Intracoastal Waterway

13 Invitations

In 2009, President Hamid Karzai called on the Taliban to participate in a national election to choose the head of state and members of provincial councils in what country?

Afghanistan

14 Arizona Place Names

Name the region in northern Arizona that the Spaniards called "el Desierto Pintado."

Painted Desert

15 Plateau Places

These cities are all on what enormous plateau?
Pasco, Walla Walla, Spokane,
Pendleton, The Dalles, Yakima

Columbia Plateau

16 Sculptures

Copies of a sculpture, "Goddess of Democracy," appeared in 1999 in places such as London, Hong Kong, and California. They were modeled after the original destroyed ten years earlier in what Chinese square?

Tiananmen Square

17 Polyhedra

Name the three regular polyhedra with triangular faces.

tetrahedron, octahedron, icosahedron

18 A Matter of Opinion

Many commentators believe that the stated opinion of the beauty pageant contestant from what state regarding gay marriage cost her the Miss USA title in 2009?

California

19 Asian Capitals

What is the capital city of the first mainland country south of China that borders the South China Sea?

Hanoi

20 Simultaneous Equations

What is Q in this pair of equations?
 $3P + 7Q = 23$
 $7P + 3Q = 27$

2

KAEOPP

Round # 4

2010

21 Metals

What silvery-white metal mostly used in auto emission devices, electrical contacts, and jewelry metal is 30 times rarer than gold?

platinum

22 Algebraic Graphing

What is the slope of a line described by the equation $3x - 5y = -3$?

3/5

23 Variation

When $x = 2$, $y = 9$. When $x = 6$, $y = 3$. When $x = -1$, $y = -18$. What is the constant of variation?

18

24 Equations

What is an equation for the line with an x-intercept of 3 and a y-intercept of 5?

$x/3 + y/5 = 1$

25 Syllogisms

Complete this syllogism.
Some mugs are beautiful.
All mugs are useful.
Some ...

useful things are beautiful

26 Polyhedra

The three regular polyhedra having vertices where three faces meet include the tetrahedron, the hexahedron, and the ...

dodecahedron

27 British Biographies

This is the opening of a biography of what 18th-century British essayist, poet, and lexicographer? To write the life of him who excelled all mankind in writing the lives of others, and who, whether we consider his extraordinary endowments, or his various works, has been equalled by few in any age, is an arduous task.

Samuel Johnson

28 Ocean Floor Vents

Hydrothermal vents on the ocean floor that release superheated water containing sulfides and other dissolved minerals that precipitate out to form black chimneys are called black ...

smokers

29 Square Dancing

The person who announces figures for the dancers in a square dance is the ...

caller

30 Literary Techniques

What literary technique is illustrated by the Monty Python routines in which a knight who just had his arm cut off says, "It's just a flesh wound," and the soldier who just had his leg blown off says, "It stings a bit"?

understatement (or meiosis)

KAEOPP

Round # 4

2010

31 National Parks

On what plateau are Zion, Bryce Canyon, Capitol Reef, Canyonlands, Arches, the Petrified Forest, and the Grand Canyon national parks?

Colorado Plateau

32 Short Stories

This is from what Ambrose Bierce tale?

"If I could free my hands," he thought, "I might throw off the noose and spring into the stream. By diving, I could evade the bullets, and, swimming vigorously, reach the bank, take to the woods, and get away home."

An Occurrence at Owl Creek Bridge

33 Marine Dining

What creature is on the attack in this description?

Hundreds of tube feet fasten onto the oyster's two shells and pull in opposite directions. Gradually the oyster's muscles tire and its shell opens. Then the predator everts its stomach through its mouth to engulf its food.

starfish

34 Elements

Falling on the periodic table between beryllium and carbon, what is the atomic number of boron?

5

35 Waves

Space and satellite communication relies on SHF waves. For what does this abbreviation stand?

superhigh frequency

36 Mercury

Mercury has vast, smooth, dark areas that resemble what landforms on the Moon?

maria

37 Financial Scandals

What are the initials of the American insurance corporation that came under fire in 2009 for handing out huge bonuses to its executives after receiving billions in federal bailout funds?

AIG

38 Meteorites

Carbonaceous chondrites contain organic compounds and what kind of acids?

amino acids

39 Trigonometric Applications

If the angle of elevation to the top of a pole 30 feet from your feet is 35 degrees, to the nearest foot, given that the tangent of 35 degrees is .7002, how tall is the pole?

21 feet

40 Thermodynamics

According to which thermodynamic law is it impossible to reduce the temperature of a system to absolute zero in a finite number of operations?

third law

KAEOPP

Round # 4

2010

41 Wave Phenomena

The bending of waves around small obstructions and the spreading of waves past small openings is called ...

diffraction

46 Sculpture

Name the type of modern sculpture often associated with Robert Rauschenberg in which an artist combines multiple objects or "found objects" into a single work.

assemblage

42 U.S. Cities

The Schlitterbahn Waterpark, Moody Gardens, the Lone Star Flight Museum, and a downtown neighborhood of historic buildings known as The Strand are among the attractions of what U.S. city?

Galveston

47 Cosines

At the equator, the rotational speed of Earth is 1040 miles per hour. What is the planet's rotational speed at Oslo, Norway, at a latitude of 60 degrees north?

520 mph

43 Westerns

In what story by Walter Van Tilburg Clark does a posse return to town only to learn the two men they had just hanged were actually innocent?

The Ox-Bow Incident

48 Queen's Progeny

Among what queen's 42 grandchildren were Kaiser Wilhelm II of Germany and the wife of Nicholas II of Russia?

Queen Victoria's

44 U.S. Deserts

The Joshua tree is the characteristic plant of what desert north of the Sonoran Desert?

Mojave Desert

49 Nominees

In a case later overturned by the Supreme Court, what judge and Supreme Court nominee sat on the appeals panel that dismissed claims by New Haven, Connecticut firefighters that racial discrimination had led to denial of their promotions?

Sonia Sotomayor

45 Inverse Variation

The altitude of a triangle of constant area varies inversely as the length of the base. When the altitude of the triangle is 20 inches, the base is 5 inches. To the nearest tenth, what is the altitude when the base is 12 inches?

8.3 inches

50 Rejected Theories

Scientists discredited Lamarckism by showing that what category of characteristics cannot be inherited?

acquired characteristics

KAEOPP

Round # 4

2010

51 Aviation

What is the three-word name for aircraft control systems that react to movement of pilot-operated controls by sending electric signals to a computer which translates them into commands effecting the aircraft's control surfaces?

fly-by-wire

52 Points on a Curve

What is the name for the curve produced by a point on the rim of a circle that is rolling along a straight line?

cycloid

53 U.S. Rivers

These rivers are in what state?

- Marias
- Powder
- Bighorn
- Milk
- Clark Fork
- Yellowstone

Montana

54 Architectural History

The Bauhaus school of design originated in what country?

Germany

55 Braking Force

In newtons, what braking force will stop a 1600-kilogram truck traveling 20 meters per second to rest in 5 seconds?

6400

56 Biology History

What word completes this fundamental concept first enunciated by Theodor Schwann?
All organisms are composed of essentially like parts, namely ...

cells

57 Trigonometric Distance Problems

Two workers are on the same side of an 80-meter-high monument. If their angles of elevation to the top of the monument are 30 degrees and 60 degrees respectively, to the nearest meter, the distance between the workers is how many meters?

92

58 Dynasties

These were dynasties in what country?

- House of Valois
- Capetian Dynasty
- House of Bourbon
- Carolingian Dynasty

France

59 Pronouns

What kind of pronoun is "it" in this line?
It is they who are flying.

expletive (expletive pronoun)

60 Italian Artists

Name the Italian artist born in 1452 who created these works.

- Adoration of the Magi
- Madonna of the Rocks
- Lady with an Ermine
- The Last Supper

Leonardo da Vinci

***Tie Breaker Only Technology**

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

magic

KAEOPP

Round # 5

2010

1 African Insurgency

In an ongoing civil war that began in 1991, rebels in what country attacked the city of Mogadishu in 2009?

Somalia

2 Novels

These lines are from what Sinclair Lewis novel?

-Being a man given to oratory and high principles, he enjoyed the sound of his own vocabulary and the warmth of his own virtue.

-It was not known whether he enjoyed his sleeping-porch because of the fresh air or because it was the standard thing to have a sleeping-porch.

Babbitt

3 Plane Travel

A plane flew 4075 miles in seven hours. It flew the last four hours of the trip at a rate 75 mph slower than during the first three hours. How many miles did it fly in the first three hours?

1875

4 Wheels

A fast tractor with a drive wheel that is six feet in diameter is scooting along at sixty mph. The drive wheel is turning how many revolutions per minute?

280 (or 281)

5 Roads

Interstate 495, also known as the Capital Beltway, surrounds Washington D.C. and passes through parts of Maryland and what other state?

Virginia

6 Inscribed Angles

How many degrees are in an inscribed angle which intercepts an arc of exactly $(90 - y)$ degrees?

$(45 - y/2)$ degrees

7 Moving Around

You can figure the exact speed at which you are rotating on the Earth's surface by multiplying what trigonometric function of your latitude by 1040 miles per hour?

cosine

8 Gerunds

What are the gerunds in this quip?

If a woman has to choose between catching a fly ball and saving an infant's life, she will choose to save the infant's life without even considering if there are men on base.

catching, saving, considering

9 Painting History

The use of perspective and the use of light and shadow were the two most significant techniques first employed by artists during what period in European history?

Renaissance

10 Cartesian Coordinates

In which quadrant of a circle with its center at the origin are the points $(3, -2)$ located?

IV

KAEOPP

Round # 5

2010

11 Science Fiction

What dystopian novel includes these characters?
Helmholtz Watson, Alpha-Plus, lecturer
at the College of Emotional Engineering
Lenina Crowne, Beta-Plus, Vaccination-worker
at the Hatchery
Thomas "Tomakin," Alpha, Director
of Hatcheries and Conditioning
Mustapha Mond, Alpha-Plus, World Controller
for Western Europe

Brave New World

12 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

13 Aerodynamics

Instead of increasing with an increasing angle of
attack, there is a maximum angle after which lift
decreases. This is known as ...

stall

14 French Scandals

In 1894, a French army officer was convicted of
treason and sent to Devil's Island. Two years later,
new evidence proved that another officer was the actual
culprit, but officials suppressed that evidence and
fabricated documents to confirm the first conviction.
News of the coverup spread, and after a retrial, who
was finally reinstated in the French army in 1906?

Alfred Dreyfus

15 Legendary Brits

The mother of Richard the Lionhearted was Eleanor of
...

Aquitaine

16 Fastener Physics

What is the shape of the inclined plane on bolts and
screws?

helical (spiral)

17 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

18 Landforms

What is the collective name for the arid and extensively
eroded landforms apparent in places like Hell's
Half-Acre in Wyoming, Toadstool Geologic Park in
Nebraska, Dinosaur National Monument in Utah,
Theodore Roosevelt National Park in North Dakota,
the Putangirua Pinnacles in New Zealand, and the
Bardenas Reales in Spain?

badlands

19 Inequalities

If $12x + 2$ is less than or equal to 34, then x must be
less than or equal to what improper fraction?

8/3

20 Platonic Solids

How many vertices are there in a hexahedron?

8

KAEOPP

Round # 5

2010

21 Poems

These are excerpts from an anthology of poems by whom?

"I ended up with a broken fiddle and a broken laugh, and a thousand memories and not a single regret." - Fiddler Jones

"Following the flag, till I fell with a scream, shot through the guts. Now there's a flag over me in Spoon River!" - Harry Wilmans

Edgar Lee Masters

22 Scientific Prefixes

What is the meaning of the prefix in these words?
phytotoxic, phytochemical, phytogenesis

plant

23 Curves

Name the largest and most famous inverted catenary in St. Louis, Missouri.

Gateway Arch

24 Dance

It was characterized by flying kicks, rambunctious swinging of opposing limbs, rubber-legging, pigeon-toed grinding footwork, shimmying shoulders, hip twists, and slapped buttocks. Name this dance that originated in South Carolina.

Charleston

25 Polish Composers

The polonaise is a formal Polish dance that dates back to the 16th century. What Polish composer wrote 15 polonaises for solo piano?

Frederic Chopin

26 Peninsulas

In what state are these peninsulas located?

Key
Kitsap
Olympic

Washington

27 Viking Explorations

Around the year 1000, Leif Erikson's expedition landed on Helluland, which is probably Baffin Island, and Markland, which is probably what mainland territory of Newfoundland?

Labrador

28 Plant Behavior

At nighttime, flowers may assume a random orientation, but at dawn they turn to face east, a phenomenon called ...

heliotropism

29 Whodunits

What fictional Belgian detective made his first appearance in "The Mysterious Affair at Styles"?

Hercule Poirot

30 Evolution

Crabs have small tails between their rear legs, pythons have pelvis remnants, emus have useless wings, and whales have tiny leg bones. What adjective pertains to such structures that no longer have much or any use?

vestigial

KAEOPP

Round # 5

2010

31 Conic Sections

Which conic section is described by this equation?

$$4(x \text{ squared}) + y \text{ squared} = 9$$

ellipse

32 Volcanoes

As illustrated by the Yellowstone Caldera in Wyoming, the Valles Caldera in New Mexico, and the Lake Toba Caldera in Sumatra, what kind of volcano could cause devastation on a continental or even world-wide scale?

supervolcano

33 Perfect Square Trinomials

Factor $16(r \text{ squared}) + 4r + 1/4$.

$(4r + 1/2) \text{ squared}$

34 Bad Shifting

What kind of unnecessary shift is illustrated by this passage?

The more we consume broccoli, the better able to understand relativity theory one becomes.

shift in person

35 Architecture

Name the specialized arches developed during the 12th century that press against the outside of heavy stone buildings, preventing the walls from buckling outward.

flying buttresses

36 Simultaneous Equations

What is y in this system of equations?

$$3x + 2y = 13$$

$$2x + 5y = 16$$

2

37 Logic

What is the contrapositive of this statement?

If you sink, then I swim.

If I do not swim then you do not sink.

38 Tributes

What name is missing in this verse by W.H. Auden written in 1939?

Earth, receive an honored guest:

William ---- is laid to rest.

Let the Irish vessel lie

Emptied of its poetry.

Yeats

39 Mineral Deposits

Minerals that collect in what kind of alluvial deposits must be dense, chemically inert, and resistant to weathering?

placer deposits (placers)

40 Curves

What kind of curve is described by this equation?

$$x \text{ squared} + y \text{ squared} = 4$$

circle

KAEOPP

Round # 5

2010

41 Dance History

Jerome Robbins, a master choreographer, passed away in 1998. Among his best works were "Gypsy," "Fiddler on the Roof," and what urban updating of the story of Romeo and Juliet?

West Side Story

42 Deep Sea Exploration

In 2009, the unmanned underwater vehicle Nereus reached the bottom of the deepest spot in any ocean called the ...

Challenger Deep

43 Archaeology

Abu Simbel is an enormous archaeological site on the western bank of what artificial lake?

Lake Nasser

44 Radio

The longest-running radio show in U.S. history began in 1927 as the "WSM Barn Dance." Still broadcast by WSM in Nashville, the program has been known since 1929 as the ...

Grand Ole Opry

45 Bad Grammar

What word should replace the improperly used word in this line?

There is no doubt but offshore drilling would help reduce energy costs in the future.

that

46 After the Coup

In what country did General Jorge Videla's death squads slaughter thousands of leftist opponents after deposing President Isabel Peron?

Argentina

47 Coordinates

In what quadrant or quadrants does the graph of this equation lie?

$$x^2 + y^2 = 8$$

quadrants I, II, III, IV

48 Idaho Agriculture

Idaho is famous for its potatoes grown in the arid but fertile plateau watered by federal reclamation projects on what major river?

Snake River

49 Sports Art

A momentous event in what sport was captured in George Bellows' painting, "Dempsey and Firpo"?

boxing

50 Heavenly Bodies

The sub-stellar objects with insufficient mass to maintain hydrogen-burning nuclear fusion are known as what kind of dwarfs?

brown dwarfs

KAEOPP

Round # 5

2010

51 Science Fiction

This is from story?

I am a Tralfamadorian, seeing all time as you might see a stretch of the Rocky Mountains. All time is all time. It does not change. It does not lend itself to warnings or explanations. It simply is.

Slaughterhouse Five

52 Painter Quotes

What American abstract expressionist said this?

On the floor I am more at ease. I feel nearer, more a part of the painting, since this way I can walk around it, work from the four sides and literally be in the painting.

Jackson Pollock

53 Diagonals

A rectangle has a length one foot less than the diagonal and a width eight feet less than the diagonal. How long is the diagonal if the rectangle's area is sixty square feet?

13 feet

54 North American Deserts

What desert stretches from southern California to western Arizona and down into Mexico?

Sonoran Desert

55 Paintings

Full-length portraits of George Washington at the White House were painted by ...

Gilbert Stuart

56 Physics Theories

What one word completes this answer by Albert Einstein when he was asked to summarize the general theory of relativity in one sentence?

Time and space and gravitation have no separate existence from ...

matter

57 Sentence Parts

What is the function of the last word in each of these two examples?

-They named their baby Bubba.
-They elected Arnold governor.

objective complement

58 Parole

What member of the Charles Manson Family, imprisoned since 1975 for her attempted assassination of an American president, was granted parole in 2009?

Lynette (Squeaky) Fromme

59 Dance

Name the type of Bohemian dance in quick 2/4 time that was popular in the 19th century.

60 Synthetics

Used in wetsuits and electrical insulation, what synthetic rubber is made by the polymerization of chloroprene?

neoprene

***Tie Breaker Only Rockets**

In what nation was the Ariane rocket developed?

France

KAEOPP

Round # 6

2010

1 National Park Service

Less complicated to administer than a national monument, what designation does the National Park Service give to such significant historical places as Bent's Old Fort, Pennsylvania Avenue, Golden Spike, Springfield Armory, Andersonville, and Chimney Rock?

National Historic Sites

2 Mining History

What state capital is closest to where the Comstock Lode was discovered?

Carson City

3 Literature

Reminiscent of a heavy artillery piece, what is the term for these collections of books?

Loeb Classical Library

Great Books of the Western World

Penguin Classics

canons

4 Gears

What kind of gears surround a sun gear?

planetary gears

5 Short Story Anthologies

These are the titles of stories about people who live in what Ohio town?

Hands - concerning Wing Biddlebaum

Paper Pills - concerning Doctor Reefy

Nobody Knows - concerning Louise Trunnion

The Thinker - concerning Seth Richmond

An Awakening - concerning Belle Carpenter

Departure - concerning George Willard

Winesburg

6 Ancient Architecture

What is the name for squared blocks of building stone such as those used by the Egyptians and Romans?

ashlar

7 Cylinders

In terms of pi, what is the surface area of a six-inch-high cylinder with a four-inch radius?

80 pi

8 Classical Treasures

In 2009, two newly-discovered pieces of piano music were performed Salzburg, the composer's city of birth. Name the composer.

Mozart

9 Saving a Fish

In 2009, concerns about what 3-inch fish prompted authorities to drastically reduce irrigation in California's San Joaquin Valley?

smelt (delta smelt)

10 Hunters

What kind of hunters are also known as bail enforcement agents or fugitive recovery agents?

bounty hunters

KAEOPP

Round # 6

2010

11 Dams

Bonneville Dam is on what river?

Columbia River

12 Novel Quotations

These lines are from what novel?

- Why don't you pass the time by playing a little solitaire?
- Raymond Shaw is the kindest, bravest, warmest, most wonderful human being I've ever known in my life.

The Manchurian Candidate

13 Logic

What is the converse of this statement?

If I am a great auk, then I am extinct.

If I am extinct, then I am a great auk.

14 Moscow

The streets of Moscow radiate in all directions from what central square?

Red Square

15 Harsh Provisions

These provisions are from what ancient set of Mesopotamian laws?

- If any one steals the minor son of another, he shall be put to death.
- If any one brings an accusation of a capital crime before the elders and does not prove what he has charged, he shall be put to death.

Code of Hammurabi

16 Extinct Reptiles

What capability did pterosaurs have that other reptiles lacked?

They could fly.

17 Chemical Contents

The name of what particularly caustic substance completes this bit of doggerel by Ogden Nash?

The ant has made himself illustrious
Through constant industry industrious.
So what?
Would you be calm and placid
If you were full of ...

formic acid

18 Towers

At each corner of the Taj Mahal is a slender tower called a ...

minaret

19 Summit Meetings

The three men who met in the 2009 North American Leaders Summit included Barack Obama of the U.S., Stephen Harper of Canada, and what president of Mexico?

Felipe Calderon

20 Circles

What is the length of the line of centers for two circles that are tangent internally and have diameters of 32 and 66 centimeters?

17 centimeters

KAEOPP

Round # 6

2010

21 Phrases

In this line, what kind of phrase is modified by the adjective clause?

We must not dismiss the remote possibility that she is who she says she is.

noun phrase

22 Gravity

A point 6370 kilometers above the Earth's surface is 12,740 kilometers from the Earth's center, or twice as far from the center as a point on the surface would be. The value of gravity at that height would be what fraction of what it is at the surface?

1/4

23 Weaponry

What is the common name for weaponized substances such as bromoacetone, phenacyl bromide, and xylyl bromide that cause the lachrymal glands of the eyes to emit copious quantities of clear saline liquid?

tear gas (lachrymators)

24 Drama

This is from what play by Arthur Miller?

I have seen too many frightful proofs in court.
The Devil is alive in Salem, and we dare not
quail to follow wherever the accusing finger
points!

The Crucible

25 Epidemics

In 2009, the World Health Organization announced that a variant of what form of flu had become pandemic?

swine flu (H1N1)

26 Adjectives

What type of adjectives are divided into articles, pronominal adjectives, and numeral adjectives?

limiting adjectives

27 Thoreau

How did Henry Thoreau restate this thought that was originally the motto of "The United States Magazine and Democratic Review"?

The best government is that
which governs least.

That government is best which governs least.

28 Plate Tectonics

Name the greatest tectonic plate underlying the Bay of Bengal.

Indian Plate

29 Chopin

Chopin composed over a dozen formal Polish dances for solo piano. What is the collective name for these pieces?

polonaises

30 Engineering

On three separate occasions in 1944, an American B-29 was forced to make an emergency landing in the U.S.S.R. after bombing Japan. The Soviets did not return the planes, but, within a few years, they had developed a nearly perfect copy called the Tu-4 through what engineering process?

reverse engineering

KAEOPP

Round # 6

2010

31 Tragedies

What corporation was responsible for the gas leak in Bhopal, India, that killed more than 3,000 people in 1984?

Union Carbide

32 Cubes

Each dimension of a cube was doubled to produce a new cube with a volume of 64,000 cubic inches. What was the area of a single face of the original cube?

400 square inches

33 Occupational Hazards

Carpal tunnel syndrome is the most common example of an RSI, which stands for ...

repetitive strain injury

34 Dance

In France it was a gigue. In Italy it was a giga. Name this popular 16th-century English dance.

jig

35 German Engineering

In 1895, what German engineer developed an engine with no ignition system that operates on a petroleum fuel less refined than gasoline?

Rudolf Diesel

36 Old Paintings

The network of cracks in an old damaged painting is called ...

crackle

37 Computer History

Name the contemporary of Charles Babbage who developed symbolic logic and who reduced all logical relationships to these expressions.

and
or
not

George Boole

38 Literary Maledictions

What is the malediction in Shakespeare's epitaph?

Curst be he that moves my bones.

39 Avalanches

What is the name for the area in which an avalanche comes to rest?

runout

40 Clerihews

What words complete this clerihew?

Did Descartes
Depart
With the thought
"Therefore ----"?

I'm not

KAEOPP

Round # 6

2010

41 Circles

The equation for a circle is $x^2 + y^2 = 289$. The x-coordinate of a point on the circle is 15. What is the y-coordinate?

+ or - 8

42 Circles

Complete this equation of a circle with its center at the origin and a radius of 7.

$x^2 + y^2 =$

7 squared (or 49)

43 Revolutionary Painters

These are works of what American artist and member of the Continental Army?

The Death of General Warren at the Battle of Bunker Hill

The Death of General Montgomery in the Attack on Quebec

The Surrender of Cornwallis at Yorktown
Declaration of Independence

John Trumbull

44 Aerial Math

For bikers, boarders, skiers, and skaters, how many complete turns are in a ten-eighty?

3

45 Similar Sounding Names

What Latin American dance has a name that sounds like that of a poisonous African snake related to the cobra?

mambo

46 Number Problems

The difference between the squares of two numbers is 75 and the sum of the two numbers is 25. What is the larger number?

14

47 Asian Unrest

In the same year that authorities tore down the Berlin Wall, evidencing the collapse of communism in Europe, at what site in Beijing was there a military crackdown in which hundreds if not thousands of protesters were killed or injured?

Tiananmen Square

48 State Sites

CIA headquarters at Langley and the Marine Corps Training Center at Quantico are in what state?

Virginia

49 Medical Equipment

What device uses pressurized steam and superheated water to sterilize surgical instruments?

autoclave

50 Kite Trigonometry

You are flying a kite. If the string makes an angle of 30 degrees with the ground and the height of the kite is 24 meters, how long is the string?

48 meters

51 Chemical Geography

The abbreviation for the state between Wisconsin and North Dakota corresponds to the chemical symbol for what element?

manganese

52 Atmospheric Gases

A reducing atmosphere is one in which what gas is absent?

oxygen

53 Triangles

If the perimeter of an equiangular triangle is 50 feet longer than the length of one side, what is the length of a side?

25 feet

54 Political Philosophy

Thomas Hobbes argued that a violation of what contract is grounds for removing a government?

social contract

55 British Poetry

To what do the second-person pronouns refer in these lines from a John Donne poem?

And soonest our best men with thee do go.
Rest of the bones and souls' delivery!
Thou'rt slave to fate, chance, kings, and
desperate men,
And dost with poison, war, and sickness dwell.

death

56 Parts of Speech

Identify the adverbs in this observation.
Children despise their parents until the age of forty, when they suddenly become just like them, thus preserving the system.

suddenly, just, thus

57 Participles

What are the two present participles in this?
He spoke with the wisdom that can only come from experience, like a guy who went blind because he looked at a solar eclipse without one of those boxes with a pinhole in it and now goes around the country speaking at high schools about the dangers of looking at a solar eclipse without one of those boxes with a pinhole in it.

speaking, looking

58 Elections

In 2009, who did the North Korean parliament elect for another five-year term as their national leader?

Kim Jong-il

59 Astounding Fish Stories

Name the lobefin fish thought to be extinct since the days of the Mesozoic dinosaurs that was caught off Africa in 1938.

coelacanth

60 Inequalities

If $4y + 6$ is less than or equal to $3y - 5$, then y is less than or equal to ...

***Tie Breaker Only Musicals**

In what musical does Hysterium sing "I'm Calm,"
Philia and Hero sing "Lovely," Pseudolus and Hero
sing "Free," and Miles Gloriosus sing "Bring Me My
Bride"?

A Funny Thing Happened on the Way to the Forum