

# PENN BOWL 10

## A Buzzer Odyssey

Tossups by  
**Chicago  
and Yeshiva**

21 May 2001  
5/23/02 5/13/03  
**8**

**1** This organization, whose fictional employees include Stanley Kowalski, launched a "Program Growth Initiative" in 1999, which listed "becoming the agency of choice" as one of its aims. Donald Sweeney, an economist for this organization, claims this agency doctored economic analyses for enlarging locks on the Mississippi and Illinois Rivers. For 10 points--massively criticized by the Pentagon, name this organization that will build almost anything.

ANSWER: Army Corps of Engineers

**2** In colonial times, to stop their land grants from being absorbed by New York, land speculators and settlers banded together in armed groups to defend their territory. Using threats, intimidation, and violence allowed these fighters to form their own government, which was dismantled when Vermont became a state. For 10 points--name the "youth" movement that under the auspices of Ethan Allen won a major victory at Ticonderoga.

ANSWER: Green Mountain Boys

**3** Bordered by New Mexico, Texas, Durango, and Sonora, it has an area of over 90,000 square miles. Part of the Nueva Vizcaya province in colonial times, it was not until Mexico gained independence that it was recognized as a distinct region. For 10 points--what largest Mexican state shares its name with its own capital, and a breed of recently Spanish-speaking canines?

ANSWER: Chihuahua

**4** He engaged in ritual *levée* [luh-VAY] and *couchée* [koo-CHAY], or risings and retirings, and surrounded himself in laurels, lyres and tripods, to emulate his emblem. His mother, Anne of Austria, reigned in regency for a period of rebellion known as the Fronde. For 10 points--name this king of France during the war of the Spanish Succession who ruled under the moniker "The Sun King."

ANSWER: Louis XIV [accept Sun King on early buzz]

**5** A double-bonded atom counts as two atoms, a triple-bonded atom as three atoms. If the adjacent atom is the same, move outward to the next atom or set of atoms. Higher atomic numbers have precedence over lower numbers. Similar to the *E-Z* system for stereoisomers of alkenes--for 10 points--name this system of designating chirality, named after its three European inventors, or after the two letters used to designate the stereoisomers.

ANSWER: R-S or Cahn-Ingold-Prelog or CIP system [accept E-Z on early buzz]

**6** Born to a Manchu family in Beijing in 1899, this author considered himself to be a "minor character" in the greater narrative of his times. He was a frequent contributor to the literary journals of the May Fourth Movement, and was active in resistance movements against the Japanese in World War II. For 10 points--name this author hounded into suicide during the Cultural Revolution, who penned *Tea House* and *Rickshaw Boy*.

ANSWER: Lao She [lao shih]

**7** In 1951, this 1977 Hall of Fame inductee played his first game for the Detroit Red Wings. His last game, also for the Red Wings, was in 1973, when he retired to become their coach. For 10 points--name this center and three-time Lady Bing winner whose number 10 hangs from the rafters in Joe Louis Arena.

ANSWER: Alex Delvecchio

**8** Born in 1885 in a small village outside of Hamburg, Germany, this psychologist received a medical degree from the University of Berlin and psychoanalytic training from Abraham and Sachs. Digressing from a strict Freudian viewpoint, this psychiatrist sought to emphasize the role of social processes and relationships on development. For 10 points--name this psychologist who based her theory of mental illness on childhood adjustment patterns.

ANSWER: Karen Horney [hor-NYE]

**9** Born in Mecklenburg County in North Carolina, in 1795, he graduated with honors from the University of North Carolina. The cry of the 54'40" extremists became an important issue during his Presidential campaign, and similar land-acquisition issues in the Southwest escalated into war after Zachary Taylor's troops were attacked near the Rio Grande. For 10 points--name this first "dark horse" candidate who became the 11<sup>th</sup> President.

ANSWER: James K(nox) Polk

**10** His father Harvie played the mellophone; his mother Lillian gave him his first piano lessons. He originally played for a vaudeville troupe; when they disbanded in Kansas City in 1927, he stayed and joined the Blue Devils. When he and Duke Ellington collaborated on "Battle Royal," it was a pun on both their names. For 10 points--name this big-band orchestra leader, best known for his collaborations with vocalist Joe Williams.

ANSWER: Count (William) Basie

**11** This phylum, which has two names, is the only phylum in the animal kingdom whose members have symmetrical bodies in all stages of life. Usually aquatic, they can be found as polyps or medusas. For 10 points--name this phylum, whose more common name comes from the Greek for "hollow intestine," whose best-studied member is the hydra.

ANSWER: Coelenterata [see-LEN-tuh-RAH-tah] or coelenterates or Cnidaria or cnidarians

**12** Accused of flipping off Alan Dershowitz in a 1981 debate, this 54-year-old from Camden, New Jersey was savaged in the press after she wrote a *New Statesman* article claiming she was drugged with GHB and raped in a Paris hotel in May 1999. The author of *Scapegoat: The Jews, Israel, and Women's Liberation*--for 10 points--name this controversial gender theorist and feminist writer, who co-wrote *Pornography and Civil Rights*.

ANSWER: Andrea Dworkin

**13** The actor who portrayed the title character is now an investment banker. The actor best known today left the show in 1978--unsurprising, as he'd been nominated for an Oscar. The theme song, which reached #1 on the pop charts, was written by John Sebastian. For 10 points--name this ABC high school sitcom, starring Gabe Kaplan as a teacher who returns to teach the Sweathogs.

ANSWER: Welcome Back, Kotter

**14** Truganni, a woman who died in 1876, was probably the last surviving full-blooded member of this people. British colonization began the genocide in 1804. In 1831, this group's remaining members were removed to Flinders Island in the Bass Strait, but they were returned in 1847 to their original island, once called Van Diemen's Land. For 10 points--name this ethnic group who lived south of Australia.

ANSWER: Tasmanians

**15** He wrote love letters, signed "Sylvander," to a woman he named "Clarinda." His poems include "A Dedication to Gavin Hamilton," "Despondency," and "Epitaph on a Schoolmaster." This author's birthday, January 25, is celebrated by the consumption of haggis. For 10 points--name this author of "Ca' the yowes," "To a Mouse" and *Poems, Chiefly in the Scottish Dialect*.

ANSWER: Robert Burns

**16** This empire's two historical periods are named after its capitals, Napata and Meroë [meh-ROH-way]. Its rulers formed the short-lived 25<sup>th</sup> dynasty when, around 770 BC, under Kashta and his son Piye [pie], this empire stretched north to encompass Egypt. For 10 points--name this kingdom that controlled parts of Nubia from the eighth century BC to the fourth century AD.

ANSWER: Kush

**17** First identified in 1963 by Lejeune, this syndrome, which does not affect lifespan, can cause epicanthal folds, low-set ears, microcephaly, a rounded face, and varying degrees of mental retardation. Caused by a chromosomal deletion on chromosome 5--for 10 points--name this syndrome, whose best-known symptom is the high-pitched cry produced by affected newborns.

ANSWER: cri du chat syndrome

**18** Translated into Elizabethan English by Elizabeth herself, at the outset of this work, a woman appears in front of the narrator wearing a dress bearing a pi and a theta. Trying to prove that only virtue is constant, and that the only true wisdom is the knowledge of God, she is Philosophy personified. For 10 points--name this 6<sup>th</sup> century classic of medieval humanism penned by Boethius.

ANSWER: *The Consolation of Philosophy or De Consolatione Philosophiae*

**19** "Drugs are a bet with your mind," said this son of a naval officer. He attended junior college in Florida and film school at UCLA, but didn't finish either. Born in 1943, this poet, filmmaker, singer, and songwriter lost his bet with his mind on July 3, 1971. For 10 points--name this lizard king, who sometimes called himself "Mr. Mojo Risin'" because it was an anagram of his name.

ANSWER: James Douglas "Jim" Morrison

**20** These "pictures of a floating world," first created in the Tokugawa shogunate, were connected to the urban culture of theaters, restaurants, and courtesans, and to everyday Japanese life, although a popular series depicting Mount Fuji also became popular. For 10 points--name this style of woodblock prints used and improved upon by Hokusai and Hiroshige [hee-roh-SHEE-gay].

ANSWER: ukiyo-e [oo-KEY-oh ay]

**21** His first opera, *Pinotta*, waited 52 years for its 1932 première, just three years before the première of his final opera, *Nerone* [nay-ROH-nay]. Leaving the Milan conservatory in 1885 to join a traveling opera company, his most successful opera came just five years later. One of the main exponents of *verismo*--for 10 points--name this Italian composer of *Iris* best known for his one-act opera *Cavalleria Rusticana* or *Rustic Chivalry*.

ANSWER: Pietro Mascagni

**22** The name's the same. The second disguised herself as a Sheikah boy while Ganondorf held power. The third was imprisoned for treason but escaped through a sewer system. Every royal woman had this name after the first was placed in indefinite slumber after hiding the Triforce of Wisdom from her brother, the king. For 10 points--name this Hyrulian woman, helped by generations of men, all named Link.

ANSWER: Zelda

**23** Tommy and Tuppence. Felicity Lemon. Johnny Race. Superintendent Battle. Parker Pyne. Harley Quin. Ariadne Oliver. Inspector Craddock. Arthur Hastings. Inspector Japp. For 10 points--all of these characters appear in the novels of which mystery writer, more famous for Miss Marple and Hercule Poirot?

ANSWER: Dame Agatha Mary Clarissa Christie or Agatha Miller or Lady Mallowan

**24** When a roll of tape is unwound quickly, small electrically-charged regions excite nitrogen molecules in the air, which emit mostly UV light, and a small amount of visible blue light. Methyl salicylate, though, is capable of absorbing the UV light and emitting it as visible light, which is why WintOGreen Lifesavers emit sparks when you bite them. For 10 points--name this phenomenon, the production of light through friction or mechanical force.

ANSWER: triboluminescence

**25** A composite particle in technicolor theories, the minimal supersymmetric model requires five of them. This particle with zero spin was first posited to explain electroweak symmetry breaking. Physicists at ALEPH and other detectors recently reported some hints of it; the LEP collider was shut down, however, before any firm results could be obtained. For 10 points--name this still unobserved particle that gives other particles mass.

ANSWER: Higgs boson

**26** "Sir Humphrey Davy/Abominated gravy./He lived in the odium/Of having discovered sodium." Born in London's St. Paul's School in the late 1800s, the poetic form, just quoted, calls for "humorous pseudo-biographical quatrains, rhymed as two couplets," with the subject's name usually at the end of the first line. For 10 points--name this type of poem, named after the *middle* name of Edmund Bentley, the author of "Trent's Last Case."

ANSWER: Clerihew

**27** She dies of "Roman fever" after walking around the Coliseum too late at night. She scandalizes her contemporaries, including Winterbourne, by canoodling with Mr. Giovanelli. Her brother's name is Randolph, and her real name is Annie. For 10 points--name this titular character of a short story by Henry James.

ANSWER: Daisy Miller

**28** Although it is claimed that the rating of a tornado's severity is a subjective science, a scale of relative intensity was devised in 1971 at the University of Chicago. An F5 tornado, for example, is considered an "incredible tornado," based on the damage done and its vortical windspeed. Commonly called the "F scale,"--for 10 points--name this scale developed by the Japanese scientist known as "Mr. Tornado."

ANSWER: Fujita-Pearson Tornado Scale

**29** The oldest extant book in any Indo-European language, it dates to 1000 BC, though the contents are probably much older than that. Agni, Soma, Surya, and Varuna all make appearances, though Indra is the most highly lauded of the gods. For 10 points--name this oldest *Veda*, whose name means "praise."

ANSWER: Rig Veda

**30** The European Cobra group shared many of its ideals. Approaches included color-field and action painting. Milton Avery, Helen Frankenthaler, Philip Guston, Joan Mitchel, Arshile Gorky, and Franz Kline were all--for 10 points--associated with what art movement, whose most prominent members were Willem De Kooning, Mark Rothko, and Jackson Pollock?

ANSWER: Abstract Expressionism

# PENN BOWL 10

## A Buzzer Odyssey

Boni by  
**Chicago  
and Yeshiva**

# 8

**1** Name these John Donne poems from lines, 10 points each.

"The phoenix riddle hath more wit/By us; we two being one, are it"

ANSWER: "The **Canonization**"

"If any who decipher best, what we know not ourselves, can know, let him teach me that nothing."

ANSWER: "**Negative Love**" or "The **Nothing**"

"Take me to you, imprison me, for I/Except you enthrall me, shall never be free/Nor ever chaste, except you ravish me."

ANSWER: **Holy Sonnet XIV** or "**Batter My Heart**"

**2** Name these mood disorders, 10 points each.

Once called manic-depressive disorder, patients have intense periods of elation interspersed with times of severely depressed mood and activity.

ANSWER: **bipolar** depression [I or II]

Also called affective personality disorder, patients have mood swings, unrelated to life events, too mild to be classified as bipolar.

ANSWER: **cyclothymic** disorder or **cyclothymia**

Sometimes called depressive personality disorder, patients have mild depressive symptoms for at least two years.

ANSWER: **dysthymic** disorder or **dysthymia**

**3** Expand these computer acronyms, 10 points per part.

BIOS [BYE-ohs]

ANSWER: **Basic Input-Output System**

Modem

ANSWER: **MODulator-DEModulator**

PCMCIA

ANSWER: **Personal Computer Memory Card International Association**

**4** Name these Nazis, for the stated number of points.

He became president of the Reichstag in 1932 and Reichsminister of the Air Force in 1933, a post he held until his 1946 death.

ANSWER: Hermann **Goering**

Chancellor of Germany for six months in 1932, he later became vice-chancellor and Austrian ambassador under Hitler.

ANSWER: Franz von **Papen**

He helped organize the SA and SS, and was instrumental in bringing war veterans to the Nazi Party before being purged by Hitler in 1934.

ANSWER: Ernst **Roehm**

**5** Name these rivers, 10 points each.

This river cuts through the city of Dublin, dividing it into its northern and southern sections.

ANSWER: River **Liffey**

Victoria Falls, on this 1700-mile-long African river, is one of the world's seven natural wonders.

ANSWER: **Zambezi** River

Forming the principal river valley in Tibet, it is known as Yarlung Zangbo there, and as Jamuna in Bangladesh.

ANSWER: **Brahmaputra** River

**6** 30-20-10. Name the novel.

[30] The main character's final words, as he is stabbed to death by a policeman in a quarry, are, "Like a dog."

[20] A priest advises the main character about the titular institution that it "makes no claims on you. It receives you when you come and relinquishes you when you go."

[10] This novel by Kafka opens, "Someone must have been telling lies about Joseph K., for without doing anything wrong he was arrested one fine morning."

ANSWER: *The **Trial** or **Der Prozess***

**7** Name these baseball teams in the same town, for the stated number of points.

[5] In 1915, the club adopted this present name in honor of Lewis Sockalexis, a Native American from the Penobscot tribe in Maine.

ANSWER: Cleveland **Indians** [prompt on "Cleveland"]

[10] The club adopted this name in 1889 because there were so many tall, skinny players on the team. Cy Young played for this team for eight years.

ANSWER: Cleveland **Spiders**

[15] The club adopted this short-lived name in 1900 because of the bright color of their uniforms.

ANSWER: Cleveland **Blues**

**8** Name these genres of medieval literature, 10 points each.

Based on Bible stories, these cyclical plays, performed first in Latin, and later in the vernacular, dealt with man's creation, fall, and redemption.

ANSWER: **mystery** plays

From the mystery plays arose these religious dramas about the lives of saints and Mary's divine intervention. Most extant ones are in French.

ANSWER: **miracle** plays

An example of these salty tales that mocked the clergy and denigrated women is Chaucer's "The Miller's Tale."

ANSWER: **fabliaux**

**9** 30-20-10. Name the band from lyrics.

[30] "Through the fish-eyed lens of tear-stained eyes, I can barely define the shape of this moment in time."

[20] "We're just two lost souls swimming in a fish bowl year after year."

[10] "All in all, you're just another brick in the wall."

ANSWER: **Pink Floyd**

**10** Name these ancient Near Eastern monarchs, 10 points each.

- [15] The library of this ancient Assyrian king has been excavated and is now on display at the British Museum.  
ANSWER: Ashurbanipal
- [10] The lengthy name of this Babylonian king, known for his conquest of Jerusalem, translates as, "May Nabu protect the son."  
ANSWER: Nebuchadnezzar or Nebuchadrezzar
- [5] Branch Davidian leader David Koresh took his surname from this ancient emperor.  
ANSWER: Cyrus the Great or Cyrus II

**11** Name these innovators in blue-eyed soul, 10 points each.

- Her highest-charting single in the US was "Wishin' and Hopin"; thanks to Quentin Tarantino, though, more people recognize "Son of a Preacher Man."  
ANSWER: Dusty Springfield
- Before Big Star, Alex Chilton was in this band. His vocals on their "The Letter" were so gravelly many listeners thought Chilton was black.  
ANSWER: The Box Tops
- Discovered while opening for the Dave Clark Five in Michigan, their hits included "Jenny, Take a Ride" and "Little Latin Lupe Lu" [loo-PAY loo].  
ANSWER: Mitch Ryder and the Detroit Wheels or The Rivieras

**12** Name these terms from US history, 10 points each.

- John L. O'Sullivan's 1839 claim of the inevitability that Americans would cross and dominate the continent.  
ANSWER: Manifest Destiny
- For John Winthrop, the "only way to avoid shipwreck and provide for our posterity" was to establish this in New England.  
ANSWER: City upon a Hill
- Coined by Thorsten Veblen, this is the acquisition and display of expensive items to attract attention to one's real or pretended wealth.  
ANSWER: conspicuous consumption

**13** Name these linear algebra terms, 15 points each.

- An  $n$ -by- $n$  matrix, it has some value  $k$  for every diagonal element, and 0 everywhere else. Mathematically, multiplying by it is equivalent to multiplying by  $k$ .  
ANSWER: scalar matrix
- This process turns a basis of a vector space into an orthogonal basis.  
ANSWER: Gram-Schmidt renormalization

**14** Name these dietary supplements, 10 points each.

- Widely prescribed in Europe, this herb, *Hypericum perforatum*, is used to treat mild to moderate depression.  
ANSWER: St. John's wort
- This plant, genus *Panax*, is said to increase energy and blood flow. Varieties include Siberian and Korean.  
ANSWER: ginseng
- This blue-green algae, with many vitamins and minerals, is believed to reduce cholesterol levels.  
ANSWER: spirulina

**15** Answer the following on Christianity in the first millenium AD, 10 points each.

This man prohibited all worship of the pagan gods in the Roman Empire in 392.

ANSWER: Flavius **Theodosius I** or **Theodosius the Great**

This 6<sup>th</sup> century Byzantine emperor built the Hagia Sophia. His codification of Roman law restricted the rights of pagans, heretics, Jews, and Samaritans.

ANSWER: **Justinian I** or **Flavius Justinianus** or **Petrus Sabbatius**

In 730, Pope Leo III officially banned the items behind this controversy over possible worship of graven images.

ANSWER: **Iconoclastic** Controversy

**16** Name these Hitchcock movies, for the stated number of points.

[5] A photojournalist, confined to bed, is convinced he sees a traveling salesman murder his wife.

ANSWER: **Rear Window**

[10] Tourists see bad guys kill a Frenchman, who tells them a killing will take place at Albert Hall. To silence them, the bad guys kidnap their kid.

ANSWER: **The Man Who Knew Too Much**

[15] A scientist pretends to defect to East Germany to learn their missile secrets. But his secretary and fiancée follows him, complicating his escape.

ANSWER: **Torn Curtain**

**17** Name these instruments you *won't* find in your local orchestra, 10 points each.

Known for its odd, continuous sound, this wind instrument used by Aboriginal Australians is traditionally made from a length of wood hollowed by termites.

ANSWER: **didgeridoo**

This Chinese instrument contains a drum-like soundbox, with two strings played with a bamboo bow.

ANSWER: **erhu**

Ravi Shankar is known for playing this instrument, with a hollow wood neck on a pumpkin-shaped gourd.

ANSWER: **sitar**

**18** Canada had an election last November, too. 10 points per answer.

The party that formed the government and the opposition party did not change, but both picked up seats.

Name them *in order*.

ANSWER: **Liberal** Party, Canadian **Alliance** Party

This former ruling party won just 12 seats, just enough to maintain official Parliamentary party status.

ANSWER: **Progressive Conservative** Party

**19** On April 24, 1996, women's basketball announced "We Got Next" as the NBA Board of Governors approved the concept of a Women's National Basketball Association. 10 points each.

According to official WNBA rules, how many team fouls are allowed per half without penalty?

\_\_\_\_\_ ANSWER: **eight**

Who was the first player to be signed to the WNBA?

\_\_\_\_\_ ANSWER: Sheryl **Swoopes**

Who adopted James Naismith's rules for basketball in 1892 to make the sport suitable for women?

ANSWER: Senda **Berenson**

**20** Answer these questions about the Thirty Years' War, 10 points each.

When Holy Roman Emperor Ferdinand II tried to impose Catholicism on Bohemia, to which Calvinist ruler did they offer the throne?

ANSWER: **Frederick V**

In which November 1620 battle, the war's first major battle, were Frederick V's forces defeated by the Holy Roman Empire and the Catholic League?

ANSWER: Battle of (the) **White Mountain**

Which Bavarian general, the principal commander of the Catholic League's armies, later led the rape of Magdeburg?

ANSWER: Count [Graf] von Johann Tserclaes **Tilly**

**21** In January 2001, the former leader of the Democratic Republic of the Congo was apparently shot. For the stated number of points.

Five points each, name the recently assassinated president, and the longtime dictator he deposed.

ANSWER: **Laurent Kabila** and **Mobutu Sese Seko**

[10] Name the current acting president of the Congo, Kabila's son.

ANSWER: **Joseph Kabila**

[10] According to initial sources, Kabila may have died en route to emergency medical treatment in this country.

ANSWER: **Zimbabwe**

**22** Ernest Gaines is one of the few men chosen by Oprah Winfrey for her book club. Name these Gaines novels, 10 points each.

Grant Wiggins's godmother asks him to prove to her son Jefferson that he is a man, not a hog, before he is executed for a murder he didn't commit.

ANSWER: *A **Lesson Before Dying***

Eighteen elderly black men all claim responsibility for the murder of Beau Boutan, a Cajun farmer; each explains his motives.

ANSWER: ***In My Father's House***

The title character, born a slave, lives through events from the Civil War to the civil rights movement.

ANSWER: *The **Autobiography of Miss Jane Pittman***

**23** Nebulae are localized accumulations of gaseous and finely divided dust particles. 10 points each.

This famous nebula, M1, located in Taurus, is a fragment of a supernova.

ANSWER: **Crab** Nebula

M57, in Lyra, is this planetary nebula formed from the ejected atmosphere of a red giant.

ANSWER: **Ring** Nebula

This dark nebula, Barnard 33, located in Orion, neither reflects nor emits much light.

ANSWER: **Horsehead** Nebula

**24** Answer these questions about African political theorist Frantz Fanon, 10 points each.

Fanon, who studied psychiatry, later joined the nationalist movement in this African country.

ANSWER: Algeria

Published in 1963, this Fanon work contains a lengthy study of mental disorders in oppressed subjects, and advocates violence as necessary for liberation.

ANSWER: *The Wretched of the Earth*

This French philosopher wrote the preface to *The Wretched of the Earth*.

ANSWER: Jean-Paul Sartre

**25** The old Soviet anthem has made a comeback with different words, of course. 10 points each.

Which 19th-century composer wrote the wordless "Patriotic Song," adopted by Russia after the Soviet collapse?

ANSWER: Mikhail Ivanovich Glinka

This retired politician strongly condemned Vladimir Putin's plan to bring back the old anthem, saying Putin "should not blindly follow the mood of the people."

ANSWER: Boris Nikolayevich Yeltsin

Russia's national champions in this sport complained the new anthem left them with nothing to sing loudly before games.

ANSWER: football or soccer

**26** Five for one, 10 for two, 20 for three, and 30 for all four, name the four Bobbsey twins. *You have 5 seconds to begin your answer.*

ANSWER: Bert, Nan, Flossie, and Freddie

**27** Who doesn't love Bulgaria? It's one of Europe's oldest states, and has a rich and golden history. 15 points each.

These early inhabitants of Bulgaria were almost as numerous as the Indians. They fought in the Trojan War for the Achaeans, and count Orpheus and Spartacus among them.

ANSWER: Thracians

The Third Bulgarian Kingdom came into existence in 1878 with the signing of this treaty, which was soon modified at the Berlin Congress.

ANSWER: Treaty of San Stephano

**28** *Pencil and paper ready.* A stick of length one meter in its rest frame and mass one kilogram is moving at  $0.8c$  [eight-tenths the speed of light] relative to the earth. 15 points each.

What is its length in the Earth's reference frame?

ANSWER: 0.6 meters [relativistic length =  $lx$ , where  $x = (1 - 0.8^2)^{1/2} = 0.6$ ]

Assuming the speed of light  $c$  is 300 million meters per second, what is its momentum?

ANSWER: 400 million kilogram-meters/second [rel momentum =  $mv/x$ ,  $x = 0.6$ ]

**29** Name the following people from Arthurian legend, for the stated number of points.

[5] This Irish princess is Tristan's beloved.

ANSWER: **Isolde** or **Iseult** or **Yseult**

[10] Isolde is to be married to this king of Cornwall.

ANSWER: King **Mark**

[15] This maid of Isolde gives Tristan and Isolde a love potion.

ANSWER: **Brangane**

**30** Name the author from their last words for fifteen points, five if you need a well-known work.

[15] "It is some time since I drank champagne."

[5] *The Cherry Orchard*

ANSWER: Anton **Chekhov**

[15] "I've had eighteen straight whiskeys. I think that's the record."

[5] "Do Not Go Gentle into that Good Night"

ANSWER: Dylan **Thomas**