

by Bill Tressler

with thanks to Alex Dzurick, Bern McCauley, and the Great Valley Quiz Team

Tossups

1. **In one of this composer's operas, Ferrando and Guglielmo pose as Albanians to test the fidelity of their fiancées. An adagio movement with thirty-second notes begins his Linz Symphony. He and his sister Nannerl performed as child prodigies when their father (*) Leopold took them on a European tour. "K numbers" from the Köchel [KER-shull] catalogue label his works, which include the Prussian string quartets, *Eine kleine Nachtmusik* [INE-nuh KLINE-nuh NAKT-mue-ZEEK], and the opera *The Magic Flute*. For 10 points—name this composer depicted in the film *Amadeus*.**

answer: Wolfgang Amadeus Mozart

2. **One person claims this character is the nephew of Kaiser Wilhelm. This character calls others "old sport", claims to have collected jewels across Europe, and shows a friend a World War I medal from Montenegro. He worked with Meyer Wolfsheim, who fixed a (*) World Series and sold bootlegged alcohol. This man was originally from a North Dakota farm, but now lives in West Egg next to Nick Carraway, and is known for his lavish parties. F. Scott Fitzgerald created—for 10 points—what "great" character?**

answer: Jay Gatsby (accept either underlined name; accept The Great Gatsby)

3. **A majority of AccuWeather employees are alumni of this school whose graduates include Charlie Dent and Rick Santorum. This school has won 13 NCAA Division I ["one"] fencing championships since 1990, and took the last six wrestling titles. In February 2017, its student Timothy Piazza died during a (*) fraternity pledge night, and in May its former president Graham Spanier was found guilty of endangering children in connection to the Jerry Sandusky scandal. For 10 points—name this mid-Atlantic school whose mascot is the Nittany Lions.**

answer: PSU or Penn State or Pennsylvania State University (do not accept "Penn" or the "University of Pennsylvania")

4. **This group's first hundred thousand members were given a golden badge, while members joining after a successful election were derisively called "March Violets." A house owned by William Barlow was redesigned by the architect Paul Troost for this group and was called the Brown House. Its members undertook the (*) Beer Hall Putsch attempting to overthrow the Weimar Republic. Leaders of this group included Heinrich Himmler, Hermann Göring, and Adolf Eichmann. For 10 points—name this party that ruled Germany until it was dissolved in 1945 after Hitler's death.**

answer: Nazi Party or National Socialist German Workers' Party or National- sozialistische Deutsche Arbeiterpartei or NSDAP

5. **Ernest Metzger's invention capable of measuring differences in this force is used in missile navigation and subsurface mineral detection. Loop theory is an effort to describe this in terms of quantum mechanics. It is approximately 10 to the 29th times weaker than the weak force. This force is proportional to the (*) masses of the bodies involved and inversely proportional to the square of the distance between them. For 10 points—give this force which is only one-sixth as strong on the Moon's surface as on Earth's.**

answer: gravity [Metzger invented a gravity gradiometer]

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6. This mountain range's Lake Suesca was important to the Muiscas, who built the "Little Hell" religious monuments here. Another country has these mountains' Rasuwillka peak in provinces named Lucanas and Sucre [SUE-cray]. These mountains' formation is due to the Nazca Plate subduction. The (*) Tamá Massif is part of this range's northernmost peaks in the Orinoco Basin. Their highest peaks include Huascarán, Monte Pissus, and Aconcagua [AH-con-CAH-gwah]. For 10 points—name these mountains on South America's west coast.

answer: Andes mountains (prompt on "Cordillera Oriental" or "Eastern Ranges" before "Sucre")

7. To foil one villain, this character exchanges clothes with a commoner and buys powder from a druggist which he has his wife put in a drink. This man feigns illness and grabs a dagger out of the hand of a false Fatima to defeat her. This son of Mustapha the tailor and husband of Buddir al Buddoor has a beautiful (*) palace built, and later rules with his wife after her father the sultan dies. He appears in *The Thousand and One Nights*. For 10 points—name this character who escapes from a cave using a magic ring and who makes wishes which are granted by a genie in a lamp.

answer: Aladdin

8. This one word titles the middle part of Rex Pickett's *Sideways* trilogy. A pathogen, such as the Rubella virus, passing from a mother to a child is this kind of transmission. When IKEA buys European forests to own two stages of production, this word describes IKEA's economic (*) integration. The graph of the sideways parabola "x" equals "y" squared is not a function, which can be checked with this kind of "line test". For 10 points—give this term for a direction that in basketball slang can mean a player's ability to jump up and down.

answer: vertical (accept answers that repeat words in the tossup including vertical transmission, vertical integration, and vertical line test)

9. This mythological being asked Starkad to bring him King Vikar in payment for three blessings. The helm-plate press of Torslunda is often said to depict a berserker and this god who sits on Hliðskjálf [huh-LIV-skalf]. He learns nine magic songs from a sibling of his mother Bestla and learns of the world from his (*) ravens Huginn and Muninn. He gave up an eye so he could drink from Mimir's [muh-MEERS] well to gain wisdom, and he carried a weapon forged by the Sons of Ivaldi, the spear Gungnir [GOONG-near]. For 10 points—name this Norse god the Germans called Wōtan.

answer: Odin

10. This building's sculpture by Pigalle honors a Harcourt count, and shows death holding an hourglass over a figure in a coffin. The signs of the zodiac appear in its west, one of its three Rose windows. A 1723 Pietà statue by Nicolas Coustou adorns one of the (*) altars in this building whose architects included Jean de Chelles. By one account its cornerstone was laid by Bishop Maurice de Sully in 1163. For 10 points—name this example of Gothic architecture, a cathedral on a Paris island.

answer: Notre Dame Cathedral or Notre-Dame de Paris

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11. **Operation Linda Nchi** [en-chee] was a military operation in this country that led to the capture of its city Kismayo. Supporters of Mohammed Aidede drug the dead body of U.S. serviceman William David Cleveland through streets of this country. One part of its territory is controlled by Ahmed Mohamed Mohamoud, while (*) Al-Shabaab also controls pockets, and the internationally recognized government is centered at Mogadishu. For 10 points—name this eastern African country known for piracy off its coast.

answer: Federal Republic of Somalia or Jamhuuriyadda Federaalka Soomaaliya

12. In the city of Ankh-Morpork of Terry Pratchett's *Discworld*, there is a beggar who has one of these creatures on his head. In a Henrik Ibsen play, one of these is shot in the wild by Håkon Werle but is retrieved by a dog and nursed back to health. Beatrix Potter created one of these characters called (*) Jemima, and Dr. Dolittle talks to one named Dab-dab. In a Hans Christian Andersen tale, a character thought to be one of these grows up to be a beautiful swan. For 10 points—name these birds whose breeds include Peking and Mallard.

answer: duck (accept The Wild Duck after "Henrik"; accept puddle-duck after "Beatrix"; accept duckling or The Ugly Duckling after "Hans")

13. These environmental features can have a cavum, or fallstreak hole, when they are below descending ice crystals. A volutus is a low, tube-shaped example of these produced by wind shear. Common types of these objects are the Cataractagenitus [CAT-ah-rak-GEN-uh-tus] ones near (*) waterwall spray, the fog-like stratus ones, and the cumulonimbus ones seen during dangerous conditions and many types of precipitation. For 10 points—give the term for these visible masses of water in the sky.

answer: cloud

14. In Sweden this day's decorations include birch twigs decorated with feathers. "I have met them at close of day" begins a William Butler Yeats poem titled for this day; that verse describes a 1916 Irish attempt to remove the British from their island. In 1997 the World Council of Churches proposed a standard date for its (*) celebration, which many Christians currently observe after the first springtime full moon on a Sunday. For 10 points—name this holiday commemorating Jesus's resurrection.

answer: Easter (or Pascha; accept Easter, 1916, Easter Rising, or Easter Rebellion)

15. A 1956 work of Martin Gardner is titled for this academic subject, "Magic, and Mystery". One measure of collaboration among people in this field is the Erdős [AIR-dish] number. Honors given for work in this subject include the Émile Picard Medal, the Abel Prize, and the (*) Fields Medal. In 1900 David Hilbert made a list of 23 unsolved problems in this field, which mention the Riemann zeta function and the calculus of variations. For 10 points—name this subject whose subfields include game theory, set theory, and algebra.

answer: mathematics (accept Mathematics, Magic, and Mystery)

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16. In one of these literary works, a child is slain but continues to sing until a grain on his tongue is removed. Palamon marries Emily in the first of these works after the knight Arcite is thrown from a horse. In another of these stories, three men kill each other through stabbing and drinking poisoned wine during an effort to kill (*) Death. These 24 stories are told as pilgrims visit the shrine of Thomas Beckett. Geoffrey Chaucer wrote—for 10 points—what collection that includes The Squire's Tale and the Knight's Tale?

answer: The Canterbury Tales

17. The European Space Agency has proposed the MUSE mission to study this astronomical object. Some of the smallest moons of this planet include Trinculo, Margaret, and Cordelia. The poles of this planet experience 42 years of light followed by 42 years of darkness due to its axial tilt. John Flamsteed catalogued this planet as 34 Tauri before (*) William Herschel recognized it was a planet. Though it is not the most distant from the sun, this planet does have the coldest atmosphere. For 10 points—name this planet between Saturn and Neptune

answer: Uranus [MUSE stands for Mission to Uranus for Science and Exploration]

18. Some tools used to diagnose this condition include the Montgomery–Åsberg scale, the Zung self-inventory, and a rating by Max Hamilton. This stage comes between bargaining and acceptance in the Kübler-Ross model that applies to situations like a divorce or job loss. Long-term use of (*) sedatives like Xanax can cause this condition. A persistent state of this is also called dysthymia, and mania can cycle with these feelings in bipolar disorder. For 10 points—give the term for these states of low energy and sadness.

answer: depression or depressive mood (accept word forms, prompt on “melancholy”; prompt on “sadness” before given)

19. This person's confessor, Friar Jean Pasquerel, translated a letter from this figure to the Hussites condemning their heresy. Pierre Cauchon conducted a trial of this figure, but that verdict was later overturned by Pope Callixtus III [“the third”]. The coronation of Charles VII [“the seventh”] of France at (*) Reims [“REEMS”] was enabled in part due to actions of this person who claimed to have a divine vision around 1428 while tending her flocks in Lorraine. For 10 points—name this “maid of Orléans”, a French girl who led troops and was later burned at the stake.

answer: Joan of Arc or Jeanne d’Arc

20. This biological material was discovered by Hermann Henking and variations on it are thought to cause Say-Meyer syndrome, Duchenne muscular dystrophy, and Fabry disease. The instructions for FMRP, a protein, are found on it. In a dosage compensation process, lyonization condenses some of these into (*) Barr bodies. Individuals with a third copy of this tend to be taller, while Klinefelter syndrome occurs in males with at least two. For 10 points—name this sex-determining chromosome with more genetic material than the Y chromosome.

answer: X chromosome

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21. **These characters have an adventure with Johan and Peewit in a 1976 Belgian film. Some of the villains troubling these characters in a television series included the witch Hogatha, the young apprentice Scruple, and the ogre Bigmouth. Demi Lovato and Mandy Patinkin provided voices for these characters in a (*) 2017 film in which female versions of these creatures are found in a grove. Peyo created these characters who include the sleeping Lazy, the strong Hefty, and the smart Brainy. For 10 points—name these blue creatures sought by Gargamel.**

answer: **Smurfs**

22. **After West Virginia and Wyoming, this state had the third-highest vote percentage for Donald Trump in the general election. The name of this 46th state to join the Union is a Choctaw term meaning “red people.” In 1995, Terry Nichols and Timothy McVeigh destroyed the Alfred P. Murrah Federal Building in this state’s (*) capital. When it was a territory, people entered settlement lands early, leading to its “Sooner” nickname. For 10 points--name this plains state with a western panhandle, whose cities include Norman and Tulsa.**

answer: **Oklahoma**

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Bonuses

1. For 10 points each—give these crime bosses:

A. This man was the protégé of Chicago mobster Johnny Torrio and is often accused of attempting to kill a rival in the 1929 Saint Valentine's Day Massacre.

answer: (Alphonse Gabriel) Al **Capone**

B. This man briefly ran the Las Vegas Flamingo, but was shot in 1947 just months after the casino opened. His nickname was from people saying he was crazier than a bedbug.

answer: Bugsy **Siegel**

C. This Mexican drug lord headed the Sinaloa Cartel. Using a tunnel, he escaped from prison in 2015 but was recaptured and extradited to the U.S.

answer: El **Chapo** or Joaquín Archivaldo **Guzmán** Loera (prompt on "Shorty")

2. For 10 points each—name these Greek letters:

A. This fourth Greek letter, whose uppercase looks like a triangle, is used in mathematics to denote differences. Algebra students use it to mean "change" when finding a line's slope.

answer: **delta**

B. This letter, whose lowercase resembles a zero with a horizontal line through its center, is often used to denote geometric angles.

answer: **theta**

C. This letter looks like an "X." This letter is "squared" in a statistical test that determines whether sample data can plausibly be drawn from a known distribution.

answer: **chi** (accept **chi-squared** test)

3. For 10 points each—give these answers related to a Virginia family:

A. This general of the Confederate Army of Northern Virginia lost the battle of Gettysburg and surrendered his army to Ulysses S. Grant at Appomattox Courthouse.

answer: Robert E(dward) **Lee**

B. First name required. This father of Robert E. Lee earned the nickname "Light Horse" for his cavalry skills. He was the winning commander at the 1778 Battle of Edgar's Lane.

answer: Light Horse **Harry** or **Henry** Lee III

C. Richard Henry Lee proposed the motion for independence while serving in this body that met in Philadelphia between 1775 and 1781.

answer: **Second Continental Congress** (prompt on partial answers)

4. For 10 points each—give these answers related to the ancient play *Medea*:

A. *Medea* was entered in a 431 BC competition by this writer, whose works lost to both Euphorion [yoo-FORE-ree-on] and Sophocles [SAW-foh-kleez].

answer: **Euripides**

B. In the drama, Medea is upset because this figure she helped to obtain the Golden Fleece has chosen to marry a different woman. This man led the Argonauts.

answer: **Jason**

C. After Medea kills their children to punish Jason, she appears with the bodies in the chariot of what Greek sun god?

answer: **Helios**

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5. One definition of an organic compound is that the molecule contains a significant amount of this element. For 10 points each—

A. Name this element whose isotope with mass 14 is useful in radioactive dating.

answer: **carbon**

B. This alkane with molecular formula C_3H_8 can be burnt for residential heat and provides the fuel for some blowtorches.

answer: **propane**

C. Crude oil can be separated into propane, kerosene, and other compounds through the fractional form of this technique that exploits components' differing boiling points.

answer: **distillation** or **distilling**

6. Dale Chihuly used this substance in the V & A Rotunda Chandelier. For 10 points each—

A. Name this substance often composed of silica compounds. Its use in London's 1851 Crystal Palace gave the structure a transparent ceiling.

answer: (blown) **glass**

B. *Education* is a stained-glass window at Yale created by this company that still produces table lamps with glass shades.

answer: Louis Comfort **Tiffany** Company

C. Rowan LeCompte and Dieter Goldkuhle built the Rose stained glass window at this Washington, D.C. structure. One of its gargoyle sculptures has Darth Vader's head.

answer: **National Cathedral** or **Cathedral Church of Saint Peter and Saint Paul** in the City and Diocese of Washington

7. After Roman forces lost the Battle of the Teutoburg Forest in 9 A.D., this leader said, "Quintilius Varus, give me back my legions!" For 10 points each—

A. Name this emperor whose birth name was Gaius Octavius.

answer: **Augustus** Caesar or Imperator **Caesar Divi Filius Augustus** (prompt on "Caesar")

B. In 8 B.C. Augustus assumed this office whose duties included overseeing the counting of the people. This official could also remove names from the senator list; overseeing publications is an act such officials still do today.

answer: **ensor**

C. When Jesus said, "Give unto Caesar what is Caesar's" it reflected that Bethlehem became part of this Roman province in 6 A.D. The province's prefects included Pontius Pilate.

answer: **Judea** (or **Judaea** or **Iudaea**; do not accept "Judah", which was the predecessor kingdom) [by the time of Jesus the emperor was Tiberius Julius Caesar, Augustus's adopted son]

8. For 10 points—give these answers related to seeing the invisible in popular literature:

A. In this Ransom Riggs work, Jacob Portman has the ability to see hollowgasts invisible to other orphans at the title structure. Asa Butterfield starred in the 2016 film adaptation.

answer: **Miss Peregrine's Home for Peculiar Children**

B. Anton Yelchin portrayed this "weird" character in a 2013 film based on a Dean Koontz series. He is able to see Bodachs **BO-daks** and other paranormal spirits.

answer: Odd **Thomas**

C. In the Harry Potter series, this is the act a person must experience to gain the ability to see Thestrals. Harry first sees Thestrals when they pull Hogwarts carriages near the start of volume five.

answer: **see** a person **die** (accept equivalent responses) [On the Pottermore website, J. K. Rowling states "Being able to see Thestrals is a sign that the beholder has witnessed death, and gained an emotional understanding of what death means."]

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9. The Boston Museum of Science has one of these capable of producing millions of volts. For 10 points each—

A. Identify this device named for an American physicist. If a person insulated from the ground places a hand on this device's sphere, the participant's hair can stand up.

answer: **Van de Graaff generator** (prompt on partial answers)

B. A Van de Graaff generator creates this form of electricity caused by an imbalance of charge on a surface. It causes clothes in the dryer to stick together.

answer: **static** electricity

C. A simpler electrostatic generator called the "water dropper" was developed by this Scottish lord. An effect named for this man and James Prescott Joule describes the temperature change of gases when forced through valves.

answer: William **Thomson**, 1st Baron **Kelvin** (accept either underlined name; accept **Joule-Thomson** effect)

10. The *USS Oklahoma* and *Arizona* were lost during this event. For 10 points each—

A. Name this attack by the Japanese on a U.S. naval base at the Hawaiian island of Oahu.

answer: **Pearl Harbor**

B. During the Battle of Leyte [LAY-tee] Gulf, the *USS St. Lo* was the first warship sunk by one of these Japanese suicide attacks. The term means "divine wind."

answer: **kamikaze**

C. The Japanese navy, including its pilots, was commanded by this admiral whose plane was downed during 1943's Operation Vengeance.

answer: Isoroku **Yamamoto**

11. An April 2017 audit found only 508 improper votes out of 4.8 million cast in this state's 2016 election, combatting the notion of widespread voter fraud. For 10 points each—

A. Name this state whose 2013 voter ID law was struck down by the 4th Circuit Appeals Court. Its current governor is Roy Cooper.

answer: **North Carolina**

B. North Carolina's HB2 law, the so-called "bathroom bill," caused this event to be moved to the Smoothie King Center. The score of this February 2017 event was 192 to 182.

answer: **NBA All-Star** Game (prompt on partial answer)

C. The All-Star Game was originally to be played in this city, whose non-discrimination ordinance was nullified by HB2.

answer: **Charlotte**

12. This condition can be treated by placing a human in a chemically induced coma, known as the Milwaukee protocol. For 10 points each—

A. Name this disease that causes dogs to aggressively bite others.

answer: **rabies**

B. This French biologist worked with Emile Roux on a rabies vaccine. He also developed a technique of heating milk and wine to reduce microbes that spoil the beverage.

answer: Louis **Pasteur**

C. If the virus reaches the brain, it can cause this inflammation. This is sometimes seen with meningitis, the inflammation of the membrane outside the brain.

answer: **encephalitis**

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13. For 10 points each—name these Rudyard Kipling works:

A. *Toomai of the Elephants* and *Kaa's Hunting* are stories in this collection whose main character is the boy Mowgli.

answer: The **Jungle Book**

B. This collection includes *How the Camel Got His Hump* and *The Crab That Played with the Sea*. Its title came from Kipling's daughter's tendency to correct stories not repeated "exactly right".

answer: **Just So** Stories for Little Children

C. An English soldier describes a company water-bearer in this Kipling poem. The title boy saves the soldier but is shot and dies.

answer: **Gunga Din** (the pronunciation "GUN-gah DEEN" is preferred, but accept reasonable pronunciations)

14. For 10 points each—give these terms in the U.S. Constitution:

A. Article 1, Section 2 assigns the House this power to charge officials with a crime. The Senate then tries the individual to determine whether he or she is removed from power.

answer: **impeachment**

B. Article 3, Section 3 defines this crime as "levying War against [the United States], or in adhering to their Enemies, giving them Aid and Comfort."

answer: **treason**

C. The election of Donald Trump has brought renewed interest in these gifts or compensations mentioned in Article 1, Section 9. Leaders may not accept presents, offices, titles, or these from foreign entities without Congress's consent, and the term is more broad than a bribe.

answer: **emoluments**

15. This process's modern form is often credited to Roger Bacon. For 10 points each—

A. Give this technique of acquiring knowledge. It involves formulating a hypothesis, testing predictions, and refining a theory based on the experimental results.

answer: **scientific method**

B. The 1637 *Discourse on the Method* described this thinker's quest to doubt everything until evidence is found. The work includes this man's statement "I think, therefore I am."

answer: René **Descartes**

C. A scientist might also use this principle that chooses the hypothesis with the fewest assumptions among competing ideas. Because this rule allows one to eliminate unlikely scenarios, it is called a "razor."

answer: **Occam's** razor (accept law of **parsimony**)

16. For 10 points each—name these Kurt Vonnegut works:

A. Billy Pilgrim survives the 1945 destruction of Dresden as a German prisoner in this work titled for the animal meat facility that protects the POWs.

answer: **Slaughterhouse-Five**

B. The fake religion Bokononism and the dangerous substance Ice-9 appear in this work that can be read as a nuclear war allegory. The title comes from a game played with strings.

answer: **Cat's Cradle**

C. Dwayne goes on a rampage after reading Kilgore Trout's novel about free will in this work. Vonnegut borrowed a Wheaties motto for this work's title, but explained the title meal is actually a dry martini.

answer: **Breakfast of Champions**

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17. This is the group name of DJs Andrew Taggart and Alex Pall. For 10 points each—

A. Name this duo whose songs “Closer” and “Paris” topped *Billboard*'s Dance and Electronic charts.

answer: The **Chainsmokers**

B. “Paris” traded the top spot with “Something Just Like This,” a collaboration between The Chainsmokers and this Chris Martin-led group. Their albums include *Mylo Xyloto* [zigh-LOH-toh] and *A Head Full of Dreams*.

Answer: **Coldplay**

C. The February 2017 premiere of “Something Just Like This” was at the Brit Awards held at this arena. It hosts tennis's World Tour Finals, and its name is similar to a diatomic molecule.

answer: The **O2** Arena [“oh two”] (accept **North Greenwich** Arena, a name used during the 2012 Olympics)

18. For 10 points each—name these waterfalls:

A. The Horseshoe, American, and Bridal Veil Falls are sections of this landmark between New York and Ontario.

answer: **Niagara** Falls

B. Ansel Adams photographed this waterfall that flows into the Merced River after its third drop. Its namesake national park in California's Sierra Nevada Mountains was created 18 years after Yellowstone.

answer: **Yosemite** Falls

C. These waterfalls lent their name to South Dakota's most populous city, the seat of Minnehaha County. The namesake Native Americans include the Lakota.

answer: **Sioux** [soo] Falls

19. Some state these scales have a darker or sadder tone. For 10 points each—

A. Name this type of musical scale in which the third note is three semitones above the first.

answer: (natural or relative) **minor** scale (or key)

B. This is the minor key with no flats or sharps in its key signature. Its relative major is C.

answer: **A** minor

C. Some composers have written sets of these musical exercises in each of the major and minor keys. The term comes from the French for “study” and Franz Liszt wrote a set of “Transcendental” ones.

answer: **études** (accept **Transcendental Études** or **Études d'exécution transcendante**)

20. One definition of this economic concept is the money an individual receives in exchange for providing a good or service or through investing capital. For 10 points each—

A. Give this term generally stated as the money a person earns, which is taxable per the 16th amendment

answer: **income**

B. People who own stock may earn this kind of investment income, a payment made by a corporation to its shareholders.

answer: **dividend**

C. Income minus taxes is the simplest way to calculate this kind of income, the amount a consumer can choose to spend or save.

answer: **disposable** (personal) income

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21. For 10 points each—name these historical regions of France:

A. Among Louis X's ["the tenths"] titles was the count of this area whose cities include Troyes and Épernay [AY-pah-MAY]. A sparkling, carbonated wine is named for this region.

answer: **Champagne**

B. This region of west-central France was ruled by the 11th century Duke William X ["the tenth"], who passed the Duchy to his daughter Eleanor.

answer: **Aquitaine**

C. This region of north central France is named for people descended from medieval raiders and pirates. D-Day saw the landing of troops here.

answer: **Normandy** [whose people "Normans" is derived from "Norsemen"]

22. For 10 points each—name these metallic alloys:

A. This alloy of copper and zinc is used in doorknobs and musical instruments.

answer; **brass**

B. Tin and other elements are used in these alloys that can be melted to join metal pieces.

Plumbers use these alloys to connect pipes.

answer: **solder** ["sod-der" in American and "soul-der" in the Queen's English]

C. This other tin alloy was used to make kitchen utensils in medieval times. It also names a shade of bluish grey.

answer: **pewter**