

Round 2

2015 Potatoville Varsity

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Tossups

1. **One of this author's characters can't go to Draycott Deyo's party, and Marjorie's braids are cut off in revenge. Isabelle Borge and Rosalind Connage reject Amory Blaine in one of his novels, and in another, Rosemary Hoyt has an affair with Nicole's husband, (*) Dick Diver.** This author of "Bernice Bobs Her Hair" and *This Side of Paradise* wrote about the golfer Jordan Baker in a novel that sees George Wilson kill the title character, who loves Daisy Buchanan. For 10 points, name this author of *Tender is the Night*, who created Nick Carraway in his novel *The Great Gatsby*.

Answer: F(rancis) Scott (Key) Fitzgerald

2. **During one invasion of this region, injured soldiers were massacred at St. Stephen's College. That invasion came to an end when this region's governor, Sir Mark Young, surrendered on "Black Christmas." This area is governed by Basic Law, which was put into place after the signing of The (*) Joint Declaration.** At the Second Peking Convention, this territory was expanded to include Kowloon, and its lease to Great Britain was extended to one hundred years. For 10 points, name this "special administrative region" of China.

Answer: Hong Kong Special Administrative Region of the People's Republic of China

3. **Representatives of the five Beloved Ones preside over a baptism ceremony in this religion, which uses water stirred with a double-edged sword to admit members to the Khalsa. This religion's adherents fly a triangular, tasseled Nirshan in places of worship like the Harimandir [hah-ree-man-deer], this religion's holiest (*) gurdwara.** Members of this faith must wear an iron bracelet, have a wooden comb, and keep their hair uncut as a part of the Five K's. The Adi Granth succeeded Gobind Singh as the last guru of this religion, which was founded by Guru Nanak. For 10 points, name this religion from the Punjab region of India.

Answer: Sikhism

4. **This man's life was chronicled in the Vita Karoli Magni. He launched several campaigns against the Saxons one of which lead to the massacre at Verden. In order to enforce the will of Adrian I ["the first"], this man defeated Desedius, the last king of Lombard. This ruler was succeeded by (*) Louis I ["the first"], and was the son of Pepin the Short.** Years after his death, this man's grandchildren divided his lands into three parts with the Treaty of Verdun. For 10 points, name this French king, who was crowned Emperor by Pope Leo III on Christmas Day.

Answer: Charlemagne (accept Charles the Great or Charles I)

5. **The Wronskian is a calculation on one of these specific entities consisting of derivatives of functions. Each of these objects has a characteristic polynomial whose roots are its eigenvalues ["eye"-gen-"values"]. Reflecting one of these over its main diagonal creates an object with the same dimensions, called the transpose. Cofactor expansion is one method for computing a value that will equal (*) zero if one of these objects has only zeroes below its main diagonal.** For the two by two kind of this entity, the determinant equals ad-bc ["A" "D" minus "B" "C"] The identity for these objects consists of a main diagonal of ones with zeroes everywhere else. For 10 points, name these arrays of numbers that have exactly as many rows as columns.

Answer: square matrix (accept square matrices; prompt on "matrix" or "matrices;" do not prompt on "square")

6. One character created by this man sings “You know what he does” in an aria ending “Voi sapete quel che fa” [voy sah-pay-tay kell chay fah]. In another of this composer’s works, a character takes credit for killing a dragon, even though he is only a birdcatcher. This composer wrote a piece warning (*) Elvira about the fate of “one thousand and three” women in Spain alone--Leporello’s “Catalog” aria--for an opera that ends when the Commendatore drags the title seducer to Hell. This man’s aria “Der Hölle Rache” [dayr HOH-luh RAH-shuh] includes a high F sung by the Queen of the Night, who gives Tamino the title musical instrument. For 10 points, name this Austrian composer of *Don Giovanni* and *The Magic Flute*.

Answer: Wolfgang Amadeus Mozart

7. Balducci delivers a prisoner to the schoolteacher Daru, who lets the prisoner decide his own fate in this author's short story "The Guest." At the end of one of his novels, Cottard fires his gun randomly in the streets. That novel begins with rats walking into the streets and dying in the city of (*) Oran, where Dr. Rieux [ree-oh] works. One of this author’s protagonists dates Marie, shoots an Arab on the beach, and does not cry at his mother’s funeral. For 10 points, name this French author of *The Plague*, who wrote about Meursault [mehr-SOHT] in *The Stranger*.

Answer: Albert Camus (accept The Guest or L'Hôte until "this author's" is read)

8. One protein structure used in this process degrades chromosomes and is called the synaptonemal complex. Thick threads form as a part of pachynema during one stage in this process; that spindle formation causes genetic recombination in this process, which occurs as a result of (*) crossing over. The risk of nondisjunction is higher for cells undergoing this process, due to reduction division. Spore formation, oogenesis [oh-oh-genesis] and spermatogenesis utilize this process in order to form haploid gametes. For 10 points, name this cellular process, concluding with telophase II [“two”], which occurs in organisms that reproduce sexually.

Answer: meiosis (prompt on “prophase” before “crossing over” is read; do not accept “mitosis”)

9. The Orphic cult associated this god with Zagreus, and believed human nature was part Titan and part this god. In one play, this god is invoked with the Iacchus song, and he caused the deaths of Dryas and Pentheus at the hands of their parents, (*) Lycurgus and Agave, the latter of whom is one of this god’s followers, the Maenads. This god gave Midas the golden touch for taking care of Silenus, this god’s tutor, and he became “twice-born” after his mother, Semele, saw Zeus in his full glory. For 10 points, name this Greek god of wine.

Answer: Dionysus (accept Bacchus until "Hera" is read)

10. This chemist discovered that in yeast, glucose is consumed more quickly without the presence of oxygen, which is his namesake effect. By separating a racemic [ray-SEE-mik] mixture of tartaric acid, this chemist was able to demonstrate chirality [KYE-ral-ih-tee]. He observed the lack of chicken cholera expression in immune species, and cured 9-year-old Joseph Meister with the first-ever (*) rabies vaccination. In one experiment, he used a normal flask and a swan-neck flask to show that organisms didn’t originate within the contents of the flask themselves, disproving spontaneous generation. For 10 points, name this French chemist, who names the process of heating beverages to prevent spoiling.

Answer: Louis Pasteur

11. During one event at this location, Richard Wilson’s GOONs were forced away by federal agents, and Russell Means demanded negotiations with the United States. In another event at this location, forces under James Forsyth attempted to disarm a (*) deaf man, which led to the accidental discharge of his weapon. Another man at the event, Yellow Bird, increased tensions by performing a ghost dance. This location names a book by Dee Brown which implores “bury my heart” at this location. For 10 points, name this location the site of both a demonstration by AIM and a massacre of Lakota.

Answer: Wounded Knee (accept Wounded Knee Massacre or Wounded Knee Incident; accept Bury My Heart at Wounded Knee)

12. In one work about this group, the “Master-singer grew hot with ‘the scorn of scorn.’” This group “had neither food nor money” and “were dying of famine” in a poem about the “Last of” this group by Rudyard Kipling. This group had (*) cannons all around them as they “flash’d all their sabres bare” in a poem that asks “When can their glory fade?” When told to go forward, they went “into the valley of death” in a poem that begins “Half a league, half a league, half a league onward!” For 10 points, identify this group of six hundred soldiers, written about in a poem by Alfred, Lord Tennyson.

Answer: The Light Brigade (accept The Charge of the Light Brigade or The Last of the Light Brigade)

13. This artist depicted an *Allegory of a Christian Knight* next to the *Baptism of Jesus* in his *Modena Triptych*. In one of this painter’s works, a bent-over man carves in wood while a man in green reaches to remove the red tunic of Jesus in *The (*) Disrobing of Christ*. This artist painted St. Augustine and St. Stephen lowering the body of the title figure into a grave, and he painted dynamic clouds over his adopted Spanish hometown in one of two surviving landscapes. For 10 points, name this painter of *The Burial of the Count Orgaz* and *View of Toledo*, an artist originally from the island of Crete.

Answer: El Greco (accept Doménikos Theotokópoulos)

14. Lars von Trier was expelled from one of these events for saying that he sympathized with Hitler. The first one of these events was established in Venice in 1932. One of these in Berlin showcases experimental creations in its Forum section. One of these events located in (*) France awards the Palme D’or [“palm door”]. An event of this type occurs annually in Utah, and is named for Butch Cassidy’s sidekick. For 10 points, name these events, which include Cannes [cans] and Sundance, in which directors show off the works they made.

Answer: film festivals (accept logical equivalents for both “film,” such as “movie,” and “festival,” such as “show”)

15. In one work by this man, the grocer Lee Chong rents the Palace Flophouse to a group of boys who try to throw a party for Doc. In another of his novels, Caleb becomes jealous of Aron because their father, Adam Trask, loves Aron more. He created a character who pets a dead mouse in his pocket, and strangles (*) Curly’s wife. George shoots Lenny at the end of a novel by this author, who wrote about the Joad family moving to California during the Great Depression. For 10 points, name this author of *East of Eden*, *Of Mice and Men*, and *The Grapes of Wrath*.

Answer: John Ernst Steinbeck, Jr.

16. The debut of “CLARENCE BEEFTANK” in this video game series was part of a create-a-player by Jon Bois, who writes a weekly column about “breaking” these games. In the second-most-recent of these games, Leon Sandcastle came out of nowhere to be drafted, and the (*) “vision cone” appeared in the “06” [oh-six] installment of this series. One of these games had the slogan “Fear the D” and introduced the hit stick, which allowed players to cause more fumbles and make more accurate tackles. For 10 points, name this football video game series named after a former coach of the Oakland Raiders.

Answer: Madden

17. A chain linked to the Tower of Galata spanned a bay named for a “Horn” with this quality when the bay was the home to the Byzantine Navy. Okomfo Anokye caused a seat with this quality to descend from the sky; that Stool became the throne of the Ashanti people. Before it entered the Strait of Magellan, a ship was renamed for this color by Sir (*) Francis Drake. The Mongols established a Horde of this color, which names a palace built by Emperor Nero called the Domus Aurea. For 10 points, identify this color that describes an extravagant metal with symbol Au [“A-U”].

Answer: golden (accept Golden Horn; accept Golden Stool; accept Golden Hind; accept golden leaf; do not accept “yellow”)

18. In 2014, Frank Bourassa surrendered a truck full of boxes of this commodity to Canadian police in a plea deal to avoid jail time. The CIA believes that O Kuk-ryol runs a factory producing this illegal good in North Korea. Poor-quality examples of this item may have poor color-shifting, fail to use a 75/25 cotton/linen blend, or lack a watermark. The (*) Secret Service was initially created to crack down on the production and use of this illegal good, which Adobe Photoshop will automatically refuse to help you print. For 10 points, name this type of illegal paper which could purchase goods and services if it were real.

Answer: counterfeit money (accept any answer that describes paper currency that is fake; prompt on partial answers such as "money")

19. When the Bandwidth Theorem is taken in conjunction with the de Broglie [duh broy] wavelength, it gives this relation. The Robertson Relation can be used to derive this relation, and two operators are subject to this relation if they don't commute. This relation can be used to set a minimum width to spectral lines because, in one formulation of it, (*) energy and time are conjugate variables. The lower bound in this relation is \hbar over two. Position and momentum cannot both be known with arbitrary accuracy in, for 10 points, what quantum mechanical principle, named for a German physicist?

Answer: Heisenberg uncertainty principle (accept either underlined portion)

20. A philosopher from this country argued that inequalities should only benefit the worst-off people in his "difference principle," found in *Justice as Fairness*; that philosopher from this country also developed a thought experiment in which decisions are made, without knowledge of social status, from within a "veil of ignorance." The author of A (*) *Theory of Justice*, John Rawls, is from this country, as is an author who wrote "trust thyself" in the essay *Self-Reliance*. For 10 points, name this home country of transcendentalists like Ralph Waldo Emerson, who gave the Divinity School Address at this nation's Harvard University.

Answer: United States of America (accept America)

Bonuses

1. The subject of this painting is wearing a blue headband. For 10 points each,

[10] Identify this painting which shows a person wearing the headband, as well as the title piece of jewelry.

Answer: **Girl with a Pearl Earring**

[10] This Dutch artist painted *Girl with a Pearl Earring* and *View of Delft*.

Answer: Johannes **Vermeer**

[10] In this Vermeer painting, the title figure is emptying a wide-mouthed jug of the title liquid into a bowl next to a basket of bread.

Answer: The **Milkmaid** (or De **Melkmeid**)

2. Moses tells the other characters about Sugarcandy Mountain in this novel. For 10 points each,

[10] Name this novel in which Napoleon betrays his fellow pig Snowball. In this novel, Boxer is eventually sent to a glue factory.

Answer: **Animal Farm**

[10] This is the author of *Animal Farm*. He also wrote a novel in which Winston Smith eventually learns to love Big Brother in *Nineteen Eighty-Four*

Answer: George **Orwell**

[10] This Orwell work identifies machine worship as one reason that we are not all socialists. Its first part is a description of the condition of English coal miners in the 1930s.

Answer: **The Road to Wigan Pier**

3. This organization reported that “Hurricane Ashley Expected to Strike Several Bars This Cinco De Mayo” and regularly includes the “American Voices” piece. For 10 points each,

[10] Identify this satirical news website. It runs The A.V. Club.

Answer: The **Onion**

[10] *The Onion* also runs this website, which parodies sites like BuzzFeed. This website includes such memorable quizzes as “Which One Of My Garbage Sons Are You?” and “Which Blade Of Grass Are You?”

Answer: **Clickhole**

[10] This head film credit for *The Onion* runs the Film Standard video series on The Onion. His review of *Catching Fire* included comments about the film needing “more cute boys.” In his review of *Citizen Kane*, he tells of the time he joined the SLA and kidnapped Patty Hearst.

Answer: Peter K. **Rosenthal** (accept Ron E. **Rains**)

4. The electron transport chain can continuously participate in redox reactions due to this coenzyme. For 10 points each:

[10] Name this coenzyme that functions as an electron carrier from different enzyme complexes in order for cellular energy to be generated.

Answer: **coenzyme Q10** (accept **ubiquinone** or **ubidecarenone**)

[10] A high concentration of coenzyme Q10 can be found in this organelle which is responsible for producing ATP. The electron transport chain occurs in its inner membrane.

Answer: **mitochondria** (or **mitochondrion**)

[10] The inner membrane of mitochondria has ATP synthase which produces energy using a motive force that results from a gradient of these ions.

Answer: **protons** (accept **H⁺** [“H-plus”] ions; accept **hydrogen** ions)

5. After the defeat of Chiang Kai-Shek, China turned communist. For 10 points each each,

[10] Communist China was first lead by this man, who lead the Long March. After coming to power, he collected a series of his quotes for his *Little Red Book*.

Answer: **Mao Zedong**

[10] Mao Zedong instituted this political movement, aimed at rebuilding China. During this movement, students from across China formed into The Red Guard.

Answer: **Cultural Revolution**

[10] During The Cultural Revolution, this actress, who used the stage name Lan Ping, played a major role. After the death of Mao she and the remaining parts of the Gang of Four were sent to prison.

Answer: **Jiang Qing** (accept **Madame Mao** or **Li Shumeng** or **Li Jinhua** or **Li Yunhe** or **Li He** or **Lan Ping** or **Li Jin** or **Li Runqing**)

6. In this short story, Bill and Sam kidnap Johnny. For 10 points each,

[10] Identify this short story in which Bill and Sam pay Ebenezer Dorset to take his son red-haired son Johnny back.

Answer: The **Ransom of Red Chief**

[10] In this ironic short story by the author of "The Ransom of Red Chief", Jim sells his watch to buy combs for Della's hair, and Della sells her hair to buy a chain for Jim's watch.

Answer: The **Gift of the Magi**

[10] This American author wrote "The Gift of the Magi" and "The Ransom of Red Chief."

Answer: O. **Henry** (accept William Sydney **Porter**)

7. This Cathedral was built as part of a program to rebuild London. For 10 points each,

[10] Name this Cathedral, named for an apostle, that sits on Ludgate Hill. This building's architect added a triple-shelled dome to this building after being inspired by Saint Peter's Basilica.

Answer: **Saint Paul's Cathedral**

[10] Saint Paul's Cathedral was designed by this English architect, who helped rebuild London after the Great Fire of 1666.

Answer: Sir Christopher **Wren**

[10] Wren also designed Pembroke College at this English University. This University also contains King's College Chapel, which hosts to many music events every year.

Answer: The University of **Cambridge**

8. For 10 points each, give the following about interesting African coastlines.

[10] This country on the Horn of Africa had a coastline on the Red Sea until 1993, when Eritrea gained its independence. Its capital is Addis Ababa.

Answer: **Ethiopia**

[10] The Skeleton Coast is a shipwreck-ridden region on the Atlantic coast of this country south of Angola.

Answer: **Namibia**

[10] This country's port city of Banana lies on its 37-kilometer long strip of Atlantic coastline. It has a much longer coastline along the western shores of Lake Tanganyika.

Answer: **Democratic Republic of the Congo** (accept **DRC**, do not accept or prompt on Congo)

9. These people rebelled against Roman control. For 10 points each,

[10] Name these people who forced Agrippa II to flee Jerusalem in a namesake war with Rome. During the war, this people's holy Second Temple was destroyed.

Answer: **Jews** (accept reasonable equivalents, such as **Jewish people**)

[10] The First Jewish Roman War was sparked by a rebellion by this group. This group of people are named for their enthusiastic belief in god and wished to remove Rome from the holy land by any means necessary.

Answer: **Zealots**

[10] The First Jewish Roman War ended after the siege of this desert fortress which resulted in the suicide of many Sicarii.

Answer: **Masada**

10. Pairs of brothers frequently fight in the book of Genesis. For 10 points each,

[10] Name this son of Adam, a farmer whose offering to God was not as pleasing as the offering given by his brother, Abel, whom this man killed.

Answer: **Cain**

[10] This "red" son of Isaac sold his birthright for stew, and was too late to receive his father's blessing. This man's threats against his brother, Jacob, caused Jacob to flee to Paddan Aram.

Answer: **Esau** (accept **Edom**)

[10] This handmaiden of Sarah was given to Abraham as a concubine. Abraham and this woman had Ishmael together.

Answer: **Hagar**

11. When an object is deformed along its axis of motion without changing the mass distribution, the stretch rule dictates the constancy of this quantity. For 10 points each:

[10] Name this rotational analogue of mass, which describes a body's tendency to resist a change in rotational motion. Rotational kinetic energy is one half times this quantity times angular velocity squared.

Answer: **moment of inertia**

[10] This theorem, sometimes called Steiner's theorem, relates the moment of inertia through one axis and the moment of inertia through the namesake axis by a factor proportional to the distance between the axes squared.

Answer: **parallel axis theorem**

[10] Moment of inertia is obtained by summing this product for all masses in a body. Many moments of inertia are coefficients times this product; for instance, the moment of inertia for a sphere is $\frac{2}{5}$ times this product.

Answer: **MR** [M-R-squared] (accept **mass times radius squared**)

12. The Apollonian and Dionysian dichotomy is discussed in this thinker's *The Birth of Tragedy*. For ten points each,

[10] Identify this German philosopher, who claimed that "God is dead" in *The Gay Science* and introduced the concept of the Übermensch in another work.

Answer: Friedrich **Nietzsche**

[10] Nietzsche coined the term Übermensch in this novel, whose title Persian prophet learns of the will to power.

Answer: **Also Sprach Zarathustra** (or **Thus Spoke Zarathustra** or **Thus Spake Zarathustra**)

[10] A primary concept underlying *Also Sprach Zarathustra* -- that the universe repeats itself infinitely -- is described by this two-word term. This concept is also discussed by Milan Kundera in *The Unbearable Lightness of Being*.

Answer: **eternal recurrence** (accept **eternal return**)

13. One character in this work pretends to be the archangel Gabriel in an attempt to seduce a woman. For 10 points each,

[10] Identify this collection of one hundred short stories. In this work, the Brigata lock themselves in the basilica of Santa Maria Novella.

Answer: The **Decameron** (or **Decamerone**)

[10] This Italian author wrote *The Decameron*.

Answer: Giovanni **Boccaccio**

[10] In one story in *The Decameron*, Federigo courts the woman he desires by cooking his prized one of these animals. Federigo then serves this animal to Monna, which wins Monna's love.

Answer: **Falcon**

14. Protests during this war led to the Kent State Shooting and The Flower Power Movement. For 10 points each,

[10] Name this war in which American forces tried to prevent the fall of Saigon.

Answer: **Vietnam** War (accept **Second Indochina** War)

[10] During the Vietnam War, Northern Vietnamese forces launched an offensive on this holiday. Because of a ceasefire on this holiday, the Vietnamese New Year, many American and Southern Vietnamese troops were on leave.

Answer: **Tet** (accept **Tet** Offensive)

[10] After the Tet Offensive, North Vietnam overhauled this logistical system. This road was named for a North Vietnamese leader and ran through the countries of Laos and Cambodia.

Answer: **Ho Chi Minh Trail**

15. This deity ate a part of another deity that he tore to pieces, and was the consort of Geb. For 10 points each,
[10] Identify this husband of Nephthys and brother of Osiris, the Egyptian god of storms and chaos.

Answer: Set (accept Seth or Sutekh or Seteh)

[10] This nephew of Seth and son of Osiris and Isis was represented by Wadjet. He had a falcon head.

Answer: Horus

[10] This mother of Isis and Osiris is the Egyptian goddess of the sky. In one myth, this goddess gave birth to the sun every day.

Answer: Nut [noot]

16. For 10 points each, answer the following about mathematician Alexander Grothendieck, who passed away in 2014.

[10] Grothendieck revolutionized algebraic geometry, which defines shapes as collections of coordinates; that concept was first described by this 17th century mathematician, whose name is given to the coordinate system.

Answer: René Descartes (accept Cartesian coordinate system)

[10] Grothendieck's development of scheme theory improved how nilpotent elements, like x equals 0 or x squared equals 0, can be considered to be part of these sets. For the equation x cubed minus $x = 0$, this set includes x equals 0, 1, and negative 1.

Answer: solution sets (accept anything that describes the set of all possible solutions to a given equation or system of equations; accept algebraic varieties from any doctoral candidates who happen to be in the room)

[10] Grothendieck's anti-war activism included a refusal to go to Moscow to receive this award, given to mathematicians under the age of 40 and often called "math's Nobel Prize," in protest of Soviet military actions.

Answer: Fields Medal

17. The title character of this novel builds a contraption to carry his mother around in. For 10 points each,

[10] Name this novel about the title cleft-lipped character. The title character of this novel works as a gardener in Cape Town.

Answer: The Life & Times of Michael K.

[10] In this novel, Absalom is trial for killing Arthur Jarvis. The protagonist, Stephen Kumalo, takes a trip to Johannesburg in this novel.

Answer: Cry, the Beloved Country

[10] Alan Paton, and J.M. Coetzee, the authors of *Cry, The Beloved Country*, and *Life & Times of Michael K.* are from this country.

Answer: South Africa

18. Substances in this phase do not have a defined shape or volume. For 10 points each,

[10] Name this phase of matter which is described by laws named for Boyle, Charles, and Gay-Lussac. Ideal ones lack intermolecular forces between their constituents.

Answer: gas

[10] A substance undergoes this process when it undergoes a phase transition from solid to gas. Naphthalene and dry ice both undergo this process at room temperature.

Answer: sublimation (accept word forms, such as "sublimate")

[10] Carbon dioxide can be used in this form to decaffeinate coffee. This state of matter is achieved past its namesake "point," where liquid and gas phases become indistinguishable.

Answer: supercritical fluid

19. This ballet is subtitled "Pictures from Pagan Russia." For 10 points each,

[10] Identify this ballet that saw riots at its 1913 premiere. It begins with a bassoon solo, and ends with "The Chosen One" dancing herself to death in a "Sacrificial Dance."

Answer: The Rite of Spring

[10] This composer collaborated with Serge Diaghilev on *The Rite of Spring*. He also composed *The Firebird*.

Answer: Igor Stravinsky

[10] Stravinsky composed this neoclassical work for chorus and an orchestra that includes no clarinets and whose only strings are cellos and bass. Its third movement calls to "Praise Him with the sound of the trumpets" and "Praise him upon the loud cymbals."

Answer: Symphony of Psalms

20. For 10 points each, name some things about 20th century Prime Ministers of England.

[10] This Prime Minister came to power as a result of the Winter of Discontent. During her administration, she sent troops to recapture the Falkland Islands.

Answer: Margaret **Thatcher**

[10] While Minister of Education, Margaret Thatcher cut a program that provided students this substance free of charge. As a result she was labeled "This substance" Snatcher

Answer: **milk**

[10] Margaret Thatcher was Minister of Education under this Prime Minister. This conservative politician was a rival of Harold Wilson, and forced companies to use less power in his "Three Day Week"

Answer: Edward **Heath**