

British Novice Tournament 2017: INSERT WITTY SUBTITLE HERE

By Tom Hill, Joseph Krol, Alex Peplow, Ellie Warner, Francis Clark-Murray, Chris Stern, Theo Howe, Sam Cook, Jacob Robertson, Leonie Woodland, Julian Sutcliffe, Oliver Clarke, Matt Nixon, Tom de Bock, Dan Lawson, Tricia Goggin, Daoud Jackson, Ewan Macaulay, Evan Lynch and a couple more people.

Packet 1:

There should have been no previous tossups

Tossups:

1. One story surrounding this figure states that he saved three young boys from being pickled alive. Due to another story involving the giving of dowries, this figure is often depicted with three gold balls. This figure claimed to have witnessed the Virgin Mary after being imprisoned for boxing Arian's ears at the First Council of Nicea. Traditions on this figure's feast day include putting out one's shoe to receive presents. For 10 points, name this Christian patron saint of children who is the basis for the character of Father Christmas.

ANSWER: Saint **Nicholas** <Theo>

2. The Library of Corpus Christi, Cambridge was burned during this event, which began with the attempted murder of John Brampton at Brentwood. Robert Hales and Simon Sudbury were both killed in the Tower of London during this event. In its build up, a sermon on Blackheath was delivered by the Lollard preacher John Ball, who asked "When Adam delved and Eve span, who was then the gentleman?" William Walworth killed one leader of this event at Smithfield, where its participants had been met by a 14-year-old Richard II. For 10 points, name this 1381 insurrection led by Jack Straw and Wat Tyler.

ANSWER: The **Peasants' Revolt** <Tom>

3. Found in banned diet pills, 2,4-Dinitrophenol is in fact a poison that acts on this structure. Genetic defects in this organelle can cause a degeneration of retinal ganglion cells in a optic neuropathy named after Theodor Leber. Chemiosmosis and the electron transport chain in this organelle drive the oxidative phosphorylation of ADP. Cristae are folds in the inner membrane of this organelle, which contains maternally inherited DNA. For 10 points, name this "powerhouse of the cell", where respiration occurs.

ANSWER: **mitochondria** [or **mitochondrion**] <CS>

4. Hannah Arendt defined the political form of this concept as 'a potential freedom from politics'. One form of this concept is said to "derive from the wish of the individual to be his own master" in a lecture by Isaiah Berlin; that is the 'positive' form of this concept. J.S. Mill wrote a book *On* this concept, which stated that it should only be interfered with to prevent individuals harming others. Along with fraternity and equality, this concept makes up the national motto of the French republic. For ten points, name this concept, whose 'negative' form can be defined as the absence of restraints.

ANSWER: **liberty** <JK>

5. Simonides of Ceos composed an ode for the fallen of this state at one battle that ends "here, obedient to their laws, we lie." This state's constitution, the Great Rhetra, banned all currency except iron spits, and was supposedly established by the lawgiver Lycurgus. All eligible men in this state underwent training called the *agoge* [ah-go-gay]. According to Herodotus, Dieneces [Dy-en-ees-eez] was not dismayed to fight for this state under a volley of so many Persian arrows that they blocked out the sun. For 10 points, name this Ancient Greek state whose king Leonidas died among the 300 at Thermopylae.

ANSWER: **Sparta** <OSC>

6. One woman in this novel boasts that “few people in England have more true enjoyment of music” than her. That character insults the protagonist of this novel by asking her to play on the second-best piano at Rosings. The heroine of this novel rejects a proposal from the heir to Longbourn, Reverend Collins, so he marries her best friend Charlotte Lucas instead. At the end of this novel, Lydia marries the rakish George Wickham, while her older sister Jane weds Mr Bingley. For 10 points, name this Jane Austen novel, in which Elizabeth Bennet falls in love with Mr Darcy.

ANSWER: *Pride and Prejudice* <EJW>

7. This figure rose to prominence following an event that resulted in the death of Fred Matthews. That event was The Battle of Saltley Gate. In 1985, Queen Elizabeth controversially suggested that an event organised by this man was “all about” himself. This man’s influence gradually declined after a clash between police and picketers at a British Steel coking plant in the Battle of Orgreave; however he remained president of the National Union of Mineworkers until 2002. For 10 points, name this trade unionist who was the architect of the Miners’ Strike in the Thatcher era.

ANSWER: Arthur Scargill <Theo>

8. A 2009 documentary wrongly suggested that this company funded an annual hunting event in Taiji, Japan. In February 2016, its CEO admitted to sending employees to infiltrate animal rights activist groups. The release of a 2013 film by Gabriela Cowperthwaite caused the profits and share-prices of this company to plummet. That film argued that prolonged captivity had psychologically damaged Tilikum, an animal which had killed three people. For 10 points, name this chain of US amusement parks which responded to *Blackfish* by ending its breeding programmes and live shows with orcas.

ANSWER: SeaWorld <Tom>

9. One character in this film describes the outfit of a ‘serious musician’ in an 80s tribute band as that of a ‘serious firefighter’. John Legend has a cameo as a jazz singer in this film, and JK Simmons plays a club owner in reference to the director’s previous film Whiplash. Notable scenes in this film include a floating dance scene in a planetarium, and this film opens with a dance number in a Los Angeles traffic jam, “Another Day of Sun”. For ten points, name this 2016 musical, starring Ryan Gosling as a pianist and Emma Stone as an aspiring actress, winning her an Oscar for Best Actress.

ANSWER: *La La Land* <FCM>

10. In one scene in this work, the protagonist decides to have a swimming contest with Breca while wearing full armour. This work begins with a description of the death of king Shield Sheafson. Unferth lends the sword Hrunting to this work’s protagonist, who is wounded fighting a dragon with Wiglaf. This work’s protagonist later rips his enemy’s arm out of its socket and kills that enemy’s mother to save King Hrothgar in the Hall of Heorot. Beginning with the word “hwaet!”, for 10 points, identify this Old English epic poem in which the title warrior-king kills Grendel.

ANSWER: Beowulf <EJW>

11. This figure is shown removing the weapons of another character in Jacques-Louis David’s final painting. One painting contrasts the lines of this figure’s body with the rolling hills in the background; that Giorgione work features this figure ‘sleeping’. Flora offers this figure a cloak whilst Zephyrus blows on them forcefully from the top-left in another painting. This figure is shown reclining naked in a Titian painting named for Urbino. Shown arriving from the sea on a large scallop shell, for ten points, name this figure whose ‘birth’ was depicted by Botticelli, the Roman goddess of love.

ANSWER: Venus [prompt on Aphrodite] <JK>

12. This symbol is pronounced 'chk' in the name of the dance punk band behind the album *Myth Takes*. This symbol is used to represent an alveolar click in the International Phonetic Alphabet, and F. Scott Fitzgerald described the usage of one in a sentence as being akin to laughing at one's own joke. Westward Ho! is notably the only town name in the UK to contain one of these symbols, and one also appears in the name of the band WHAM! For 10 points, name this punctuation mark which can be used to increase the volume or urgency of the preceding sentence.

ANSWER: **exclamation mark** (accept **exclamation point**) <Theo>

13. At the end of this country's national epic, the titan Tethys marries an explorer who sails to India and back again. In a novel from this country, a man known as 'the car thief' is shot when he asks for medication for his leg. The ghost of a poet from this country is included in a novel about *A Year in the Death* of one of his aliases. In a novel from this country, 'the doctor's wife' is the only character who remains unaffected by the title phenomenon. For 10 points, name this Iberian nation home to the author of *Blindness*, Jose Saramago, and whose national epic is *The Lusitads*.

ANSWER: **Portugal** <Tom>

14. This body of water is home to the last seagoing paddle steamer in the world, the PS Waverley. The western limit of this body of water is a line joining St Govan's Head to Hartland Point and this body of water has the second-largest tidal range in the world. The islands of Flat Holm, Steep Holm and Lundy lie in this body of water, which was known as the Severn Sea until Tudor times. Swansea is the largest city on this body of water's northern coast. For 10 points, give this body of water separating south-west England from southern Wales, named after an English city.

ANSWER: **Bristol Channel** [accept **Severn Sea** before mention; accept **Mor Hafren**]

15. Octahedral complexes with pi acceptor ligands have a "low" value for this quantity. The existence of this quantity was confirmed by firing silver atoms through an inhomogeneous magnetic field in the Stern-Gerlach experiment. Hund's rule of maximum multiplicity states that, for a given configuration, the state with the lowest energy has the greatest value of this quantity. Fermions, such as electrons, are particles which have half integer values of, for 10 points, what form of intrinsic angular momentum, that can be imagined as a particle rotating on its own axis?

ANSWER: **spin** <CS>

16. On one song by this man, he sings 'I feel so good if I just say the word', before repeating the title nonsense word. This man won an Oscar for Best Original Song in 1999, which appeared on his soundtrack for Tarzan. He isn't Peter Gabriel, but this man was the vocalist on his band's songs *Invisible Touch* and *I Can't Dance*. In another song, this man sings 'If you told me you were drowning, I would not lend a hand', and that song features a notable drum solo before the final chorus. For ten points, name this drummer and singer for Genesis, singer of *Sussudio* and *In the Air Tonight*.

ANSWER: Phil **Collins** <FCM>

17. This work's composer considered its focal point to be a bitonal chord played by the strings and horns in a "stamping" rhythm. That theme appears in the second section of this work, titled "Augurs of Spring". Camille Saint-Saëns supposedly remarked "If that's a bassoon, I'm a baboon!" after hearing the unusually high solo that opens this piece's "Adoration of the Earth". This piece climaxes with a "Sacrificial Dance." For 10 points, name this ballet which almost caused a riot at its 1913 Paris premiere, written by Igor Stravinsky.

ANSWER: *The* **Rite of Spring** <Tom>

18. During this man's rule, so-called "young officers" attempted a coup d'état in the February 26 Incident, while the League of Blood plotted to kill Charlie Chaplin. Like his son, this leader was an accomplished marine biologist. The Mukden Incident prompted this leader to order the invasion of Manchuria. This man was pictured with Douglas

MacArthur after renouncing his divinity. This man's reign was called the "Showa" period. This ruler used the Jewel Voice Broadcast to announce his nation's surrender, after it was atomic bombed twice. For 10 points, name this Emperor of Japan during World War II, the father of Akihito.

ANSWER: **Hirohito** <EJW>

19. In one scene, this character watches a friend play solitaire and asks him why both ends of face playing cards are the same. This character's regrets include how he lost a piece of fabric given to him by his Aunt Clara, and how he was forced to leave Weed after a mistaken accusation of assault. This character crushes the hand of a man who likes to wear a glove filled with Vaseline, and later accidentally breaks the neck of that man's wife, leaving George no choice but to shoot him in the head. For 10 points, name this character from *Of Mice and Men*, who just wants to tend the rabbits.

ANSWER: **Lennie Small** [accept either first name or surname] <EJW>

20. The Hubble diagram of certain types of these events has been used to determine the cosmological constant. A broad silicon absorption line is used to distinguish between some types of these events. Neutral hydrogen is present in the spectra of the "core-collapse" varieties of these events, which can occur when the mass of a white dwarf exceeds the Chandrasekhar limit. Accretion in binary stars is thought to cause the Type Ia variety of these events, and the crab nebula is a remnant of one of them. For 10 points, identify these extremely bright stellar explosions.

ANSWER: **supernovae** <MN>

Bonuses:

1. The protagonist of this work refers to his favourite artists, including Goethe and Mozart, as "the Immortals". For 10 points each:

[10] Identify this novel in which Harry Haller falls in love with Hermine and goes to a Magic Theatre described as being "for madmen only".

ANSWER: ***Steppenwolf***

[10] *Steppenwolf* is a work by this German author, who also told the spiritual journey of the son of a priest who leaves home and meets the Buddha in *Siddhartha*.

ANSWER: Herman **Hesse**

[10] This character invites Harry to participate in an orgy and appears as a chess player in the Magic Theatre. Harry is surprised to discover that this jazz saxophonist shares his love of Mozart.

ANSWER: **Pablo** <MN> m/e/h

2. Seeming irregularities in this law's first statement were later explained by Verner's Law. For 10 points each:

[10] Name this law of sound change, a chain shift from voiced aspirated stops to voiced stops to voiceless stops to voiceless fricatives. Its namesake linguist also collected fairy tales with his brother.

ANSWER: **Grimm's** Law

[10] Grimm's Law specifically describes how the stop consonants inherited from this language developed in Proto-Germanic. The speakers of this proto-language are believed to have had their homeland somewhere in Anatolia.

ANSWER: **Proto-Indo-European** [or PIE]

[10] The existence of three different types of laryngeals in Proto-Indo-European was proposed by Ferdinand de Saussure, and later vindicated with the decipherment of this language, written in cuneiform and closely related to Luwian.

ANSWER: **Hittite** <EJW>

3. The French poet and playwright Guillaume Apollinaire coined a number of terms to describe artistic movements in the first half of the 20th century. For 10 points each:

[10] This word was coined by Apollinaire to describe the works of Erik Satie, but is now more associated with Andre Breton and unnerving paintings by Max Ernst and Rene Magritte such as *Time Transfixed*.

ANSWER: **Surrealism**

[10] According to Apollinaire, this artistic movement included artists such as Pablo Picasso and Georges Braque, and featured “synthetic” and “analytical” phases.

ANSWER: **Cubism**

[10] This offshoot of Cubism, whose name was also coined by Apollinaire based on a figure from Greek myth, focused on pure abstraction and vibrant use of colour. Its pioneers included Frantisek Kupka, as well as Robert and Sonia Delaunay.

ANSWER: **Orphism** <JK>

4. In this novel, Pollux and Petrus organise an attack on Lucy Lurie’s farm, shooting the dogs that she breeds. For 10 points each:

[10] Name this 1999 novel which sees communications lecturer David Lurie fired from his position after preying on his student, Melanie Isaacs.

ANSWER: **Disgrace**

[10] *Disgrace* won the Booker Prize for this Nobel Literature laureate, who had also won previously for *Life & Times of Michael K*.

ANSWER: John Maxwell **Coetzee** [KOOT-SAY]

[10] Coetzee is an author from this country. Other authors from this country include Nadine Gordimer, whose novel *July’s People* sees the Smales family flee from the fall of apartheid in this country’s city of Johannesburg.

ANSWER: Republic of **South Africa** <Theo>

5. For 10 points each, answer the following about the abolition of slavery in the United States:

[10] The white abolitionist movement in the northern US was led by reformers like William Lloyd Garrison, and writers like John Greenleaf Whittier and this author of *Uncle Tom’s Cabin*.

ANSWER: Harriet Beecher **Stowe**

[10] In 1863, Abraham Lincoln issued this document which formally freed slaves who were being held in the Confederate States as contraband.

ANSWER: **Emancipation Proclamation**

[10] Slavery was finally officially outlawed across the entirety of the United States in this amendment to the constitution in 1865, as part of the beginning of Civil War reconstruction.

ANSWER: **Thirteenth** Amendment <EJW>

6. For ten points each, answer some questions on mechanical systems such as the simple pendulum:

[10] This type of motion is exhibited by objects obeying Hooke's law and is described when the acceleration of a body is oppositely directed to, and proportional to, its displacement.

ANSWER: **simple harmonic motion** [or **SHM**]

[10] For oscillators with restoring forces that are not exactly proportional to their displacement, this behaviour results. This behaviour is characterised by having extra zero and double frequency corrections present.

ANSWER: **anharmonic** [accept **non-linear**]

[10] An example of an anharmonic oscillator is the simple pendulum. Using this approximation, it can be treated as an example of simple harmonic motion. In this approximation the sine of theta equals theta.

ANSWER: **small angle** approximation <JR>

7. In August 2016, this cricketer became the second-youngest Englishman to score 4,000 Test runs, after only Alastair Cook. For ten points each:

[10] Name this batsman, who succeeded Cook as England Test captain in February 2017.

ANSWER: Joe **Root**

[10] Root plays for this county cricket club. Other batsmen from this county to have captained the England Test team include Len Hutton, Michael Vaughan and Geoffrey Boycott.

ANSWER: **Yorkshire**

[10] This Yorkshire leg-spinner has played in ten away Tests for England in the last two years, and bowls alongside Moeen Ali in England's One Day International team.

ANSWER: Adil **Rashid** <FCM>

8. The USA is responsible for many things, but one of the more positive ones is inventing national parks. For 10 points each, answer some questions on American national parks.

[10] Yosemite was the first area of American land set aside for preservation, but the first true American national park, and therefore the first in the world, was this one in Wyoming, Idaho and Montana, known for its supervolcano.

ANSWER: **Yellowstone** National Park

[10] Also in Montana is this national park, which, along with Waterton Lakes NP across the border, in Canada, has formed part of the world's first International Peace Park since 1932. Ironically, most of the objects the park is named for are well on their way to melting entirely.

ANSWER: **Glacier** National Park

[10] The eastern US also has its national parks, with the oldest being this one in Maine, covering most of Mt Desert Island, various nearby smaller islands, and a small part of the mainland.

ANSWER: **Acadia** National Park

9. This poem introduced words such as “unoriginal”, “terrific” and “pandemonium” into the English language. For 10 points each:

[10] Name this epic poem. It tells of the “first disobedience” that led to the Fall of Man and was written to “justify the ways of God to man”. It ends with two characters making their “solitary way” through Eden.

ANSWER: **Paradise Lost**

[10] *Paradise Lost* was written by this English poet, who also defended free speech in “Areopagitica” and discussed his blindness in “When I Consider How My Light is Spent”.

ANSWER: John **Milton**

[10] This other poem by Milton is a pastoral elegy in memory of Edward King, one of his friends who drowned in the Irish Sea. Milton fondly recalls their time together as young “shepherds” in the “pastures of Cambridge”.

ANSWER: “**Lycidas**” <EJW>

10. The third of these works makes repeated use of a F-A-F motif signifying the composer's bachelorhood by saying that he is “Frei aber Froh” which roughly translates as “Free but happy.” For ten points each:

[10] Identify this group of four works, the first of which was nicknamed “Beethoven's Tenth” by Hans von Bulow due to perceived thematic similarities.

ANSWER: **symphonies** by Johannes **Brahms**

[10] The finale of Brahms' fourth symphony is in this baroque dance form, similar to a chaconne, which has a ground bass which gradually changes between voices.

ANSWER: **passacaglia**

[10] Brahms's fourth symphony is in E minor, which like its relative major of G has this many sharps in its key signature.

ANSWER: **one** <CS>

11. Although homosexuality was legalised in Russia in 1993, LGBT people still face widespread discrimination. For 10 points each:

[10] In April 2017, it was reported that over 100 gay men had been imprisoned in concentration camps in this Russian Republic. Under Ramzan Kadyrov, this Republic in the North Caucasus has adopted elements of Sharia Law.

ANSWER: **Chechnya**

[10] This newspaper broke the story of the gay concentration camps in Chechnya. Famously critical of the Russian political establishment, six of its journalists have been murdered since 2001.

ANSWER: **Novaya Gazeta**

[10] Kadyrov has stated that there are no gay people in Chechnya, because if there were, he would have sent them to this country. The charity Rainbow Road has helped 31 Chechnyans claim asylum in this country, where Prime Minister Justin Trudeau is a vocal advocate of LGBT rights.

ANSWER: **Canada** <Tom>

12. This organ receives input from the hypothalamus and disorders of it are associated with numerous conditions including gigantism, caused by an excess production of Human Growth Hormone in this organ. For ten points:

[10] Name this master gland that controls numerous hormone axes and sits at the base of the brain.

ANSWER: **pituitary** gland

[10] This peptide hormone released by the pituitary gland has neuroprotective and remyelinating properties. It is better known for causing milk production in female mammals.

ANSWER: **prolactin**

[10] Prolactin differs from other pituitary hormones in that its production is continually suppressed by this compound. Underproduction of this neurotransmitter leads to Parkinson's disease.

ANSWER: **dopamine** <JR>

13. After being tossed into the ocean by Odin, the Midgard Serpent grew so large that it encircled the world, and began chewing on its tail. For 10 points each:

[10] This is an example of what recurring mythological symbol, in which a snake or dragon is depicted eating its own tail? It is often seen to represent the repeating cycle of creation and destruction.

ANSWER: **ouroboros**

[10] The Midgard Serpent is often depicted fighting against this god of thunder. At Ragnarok, this god will eventually kill the snake with his hammer, but then die from his wounds.

ANSWER: **Thor**

[10] Another large snake in Norse mythology was this winged, dragon-like creature, which chewed a root of the world-tree Yggdrasil.

ANSWER: **Nidhoggr** <Tom>

14. The central character of this book practices banter with the locals at The Coach and Horses in Taunton, and often reminisces on his undying loyalty to Lord Darlington. For 10 points each

[10] Name this novel, centering on the butler Stevens, and his feelings towards his former colleague Miss Kenton.

ANSWER: *The **Remains of the Day***

[10] *The Remains of the Day* is a novel by this Nagasaki-born British winner of the Nobel Prize for Literature in 2017.

ANSWER: Kazuo **Ishiguro**

[10] In this other novel by Ishiguro, Kathy is a clone who is raised to be an organ donor. She grows close to the other donors Tommy and Ruth during their time at Hailsham Academy in this novel.

ANSWER: **Never Let Me Go**

15. This person was born before the foundation of Baltimore, and died during the presidency of George Washington. For 10 points each:

[10] Name this female ruler of Russia, the wife of Peter III, whom she deposed in 1762.

ANSWER: **Catherine the Great** [or **Catherine II**; accept **Sophie of Anhalt-Zerbst**; prompt on **Catherine**]

[10] These structures are alleged to have been built by one of Catherine's favourites, from whom they take their name, along the Dnieper River to convince her, and foreign ambassadors, of the region's prosperity.

ANSWER: **Potemkin villages**

[10] More substantially, Catherine founded this educational establishment, the first for women in Russia. Its building would house the Bolshevik headquarters during the October Revolution.

ANSWER: The **Smolny Institute** (for Noble Maidens) <Alex>

16. Instead of providing this substance during a negotiation, one character instead produces a lump of fulminated mercury, causing an explosion to avenge the beating of his partner. For ten points each:

[10] Name this substance, a blue form of which is produced by a chemistry teacher with terminal lung cancer in an RV. This substance is sold by characters like Tuco Salamanca and Lydia Rodarte-Quayle.

ANSWER: Crystal **meth**amphetamine (prompt on 'Blue Sky')

[10] Jesse Pinkman and Walter White produce crystal meth in this American drama, winning Emmys for actors Bryan Cranston and Aaron Paul.

ANSWER: **Breaking Bad**

[10] This fast food chain serves as a cover for Gus Fring's massive meth distribution network in Breaking Bad. Its name refers to his early partner who was murdered by the cartel; Fring later kills the entire cartel in revenge.

ANSWER: Los **Pollos Hermanos** (prompt on 'the Chicken Brothers') <FCM>

17. Sitting on a hill in central Italy, this abbey has witnessed many events of significance throughout its long history. For 10 points each:

[10] Name this monastery, which was heavily bombarded by Allied forces during a battle of 1944. Its capture enabled a breakthrough to Rome, but at the cost of 55,000 allied lives.

ANSWER: **Montecassino**

[10] Montecassino had been founded in 529 AD by this saint. There, he wrote a notable "Rule", which stressed the need for "prayer and work", and which gave rise to a namesake monastic order.

ANSWER: St **Benedict** of Nursia

[10] In 1799, Montecassino was sacked by the troops of this French general, who was appointed First Consul, and later Emperor, of France. He was eventually defeated at Waterloo.

ANSWER: **Napoleon** Bonaparte <Tom>

18. Given that you're in for a long day, now's as good a time as any to start thinking about lunch, and the type of sandwich you may have, for 10 points each:

[10] This simple sandwich, partly named after the French word for 'to crunch', first appeared in Paris in the early 20th century. It consists of a baked, grilled or fried sandwich with a cheese and ham filling.

ANSWER: **croque-monsieur** [anti-prompt on "croque-madame", which is a variant including eggs]

[10] This shape of sandwich is named for a naval vehicle which it is said to resemble, they are the principal good sold at a chain which asks that you 'have it your way'.

ANSWER: **submarine** [accept **Subway**]

[10] This Vietnamese sandwich type is named only after the bread, introduced by the French during the colonial period, though it is now synonymous with the most popular type, being filled with various meats and head cheese.

ANSWER: **banh mi** <Theo>

19. In recent history, London has seen a number of notable riots. For 10 points each:

[10] The riots that took place in Tottenham in 2011 and quickly spread across the capital began in response to the shooting of this man. This man was killed by the Metropolitan Police for allegedly carrying a handgun.

ANSWER: Mark **Duggan**

[10] One of the most notable sets of riots in the UK happened in 1958 in this London district. Racially motivated, they were set off by Majbritt Morrison, a Swedish woman married to a Jamaican, was assaulted.

ANSWER: **Notting Hill**

[10] The year after the Notting Hill riots, the first of these events was held in an attempt to alleviate racial tensions. This event has been held annually in Notting Hill since the riots.

ANSWER: Notting Hill **Carnival** <JS>

20. Operations are associative when the positioning of brackets does not matter. For 10 points each:

[10] Name this property of an operation 'star' for which $A \star B$ equals $B \star A$.

ANSWER: **commutativity** [accept word forms]

[10] This operation is commutative for numbers but in general not for matrices. For vectors, it comes in 'dot' and 'cross' varieties.

ANSWER: **multiplication** [accept word forms and synonyms such as **product** or **times**, accept **composition**]

[10] Groups where the operation is commutative for all elements in the group are known by this eponymous term.

ANSWER: **abelian** <LW>