

#	Question	Answer
1	This word can mean: a copy which shows the parts of various musical performers; a notch, scratch, or incision; or a group or set of 20. What is this word, which also refers to the points made by competitors in a match?	score C
2	As the central figure in a 1787 neoclassic painting, he is intentionally rendered as Christ-like and is surrounded by 12 grieving disciples. Who is this subject, depicted by Jacques-Louis David moments before drinking hemlock?	Socrates; The Death of Socrates SC M
3	In grammar it appears as a verb form identical to the first person singular that has some of the characteristics of both nouns and verbs. What is this 10-letter term that can suffer from splitting?	infinitive C
4	This is a computer question. Under what variable type would a word such as cat or dog fall?	string C
5	In October of 1902, a dome of lava too stiff to flow had formed at the crater, and from it a spine was extruded like a great blunted needle 300 feet above the crater floor. What is the name of this spine formation, named after the volcano on Martinique?	(Spine of) Pelee M
6	This is a math question. What is the sum of all the whole numbers from 1 to 100?	5,050 M
7	Who was the Vietnamese-born, Moscow-trained Communist who led the Viet Minh?	Ho Chi Minh C
8	In The Taming of the Shrew Petruchio says, "We will have rings and things, and fine array" just before saying this three-word phrase. In The Woman's Prize, a sequel by John Fletcher, he says it three times. What is this osculatory command which, in 1948, became the title of a Cole Porter musical?	Kiss me, Kate M
9	Bat guano deposits are extensively used in the manufacture of fertilizers and explosives because they are rich in compounds containing what univalent [yoo-nee-VAL-ent] radical?	nitrate M
10	Due to civil unrest, Indonesian President Suharto resigned his office in 1998. Who replaced him?	(B. J.) Habibie M
11	Wearing white sheets to represent the ghosts of dead Confederate soldiers, what white supremacist group was founded in 1866?	Ku Klux Klan C
12	This is a math question. What is the value of the expression $5x^2 + 3x - 3$ [5x squared plus 3x minus 3] when x has the value one-third?	negative thirteen-ninths; negative one and four-ninths SCA C
13	What tiny multicellular aquatic organism has at its anterior extreme a wheel-like ring of cilia?	rotifers X
14	The seat of Franklin County, it sits at the junction of the Olentangy and Scioto rivers and in 1816 became the state capital. What is this Midwestern city, home to Rickenbacker Air Force Base and the state government of Ohio?	Columbus C
15	The warning by the United States to all Europeans not to interfere with affairs in the Western Hemisphere and that the United states would not involve itself in European affairs is known as what?	The Monroe Doctrine C

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75C
55M

VHSL DISTRICT COMPETITION
ROUND 7, DIRECTED SETS

CONFIDENTIAL

7-B C	Presidents Carter and Ford used what power of group pardon for people who had fled the Vietnam draft?	Amnesty M
8-A M	What is the part of an automotive suspension that consists of a metal rod that twists to maintain stability?	torsion bar C
8-B C	This is a math question. If $f(x) = 3x - 2$, find $f(3)$ [If the function of $x = 3x - 2$, find the function of 3.]	seven C
9-A M	Which amendment says that voters shall "name in their ballots the person voted for as president and in distinct ballots the person voted for as vice president"?	12th Amendment M
9-B C	California had 54 electoral votes in the 1996 presidential election. To the nearest whole percent, what portion of the total electoral votes did that number comprise?	10 (percent) M
10-A M	Although your ancestors are not from ancient Philistia, a classmate calls you a Philistine. What does he mean?	He is calling you a smug, ignorant person indifferent or antagonistic to artistic and cultural values. M
10-B C	Resulting from diminished atmospheric pressure, what is this common disorder of mountaineers at altitudes above 10,000 feet?	mountain sickness; altitude sickness C

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1-A M	This is a math question. A box contains eight poker chips, six red and two white. If you pick out two chips without looking, what is the probability that both chips will be red?	15/28; 15 chances in 28 M
1-B C	Its title character is Hank Morgan, nicknamed "the Boss," who gets knocked on the head and wakes up in June of 1840, having been transplanted from New England to Merrie Olde England, where his inventions and reforms irk Merlin but revolutionize Camelot. What is this 1889 satire by Mark Twain?	A Connecticut Yankee in King Arthur's Court C
2-A M	Roughly how many moles of molecules are in 54 milliliters of room temperature water?	three [54 mL = about 54 grams; water's mass = about 18 g/mol] X
2-B C	In an old love song, there is a phrase, "My heart cries out perfidia." What is the meaning of perfidia?	deliberate breach of faith; treachery X
3-A M	This word is derived from an Arabic word meaning a "bean" or "seed". What is this unit of measure that equals 200 milligrams, and which joins cut, clarity, and color in judging the value of diamonds?	carat M
3-B C	Albert Einstein won the Nobel Prize in 1921 for his research on what topic?	photoelectric effect (not relativity) X
4-A M	This author is a descendant of a presiding judge of the Salem witch trials, and added a "w" to his last name to further distance himself from his family. Who is this author of The Scarlet Letter?	(Nathaniel) Hawthorne M
4-B C	Hitler believed this group to be an arm of British intelligence, probably because the group's founder had been an inspector general of British cavalry units prior to World War I. What is this honest, trustworthy group which was founded by Lord Robert Baden-Powell?	Boy Scouts C
5-A M	First initiated during the civil war, which tax advocated by the populist party was not approved by constitutional amendment until 1913?	The Federal Income Tax; Income Tax; Progressive Income Tax M
5-B C	This is a computer question. In UNIX, this character follows a command to force it to run in the background, while in C programming, it's the "address-of" operator, useful in scanf [SCAN-eff] statements and for pointers. What is this symbol, also a bitwise Boolean operator contrasted with "or"?	ampersand; and X
6-A M	What is the name for an artistic work created from many photographs and often other graphic elements?	photomontage; montage X
6-B C	What kind of thinking is described in this passage by Orwell? "... to tell deliberate lies while genuinely believing in them, to forget any fact that has become inconvenient, and then, when necessary, to draw it back from oblivion for as long as it is needed"	doublethink C
7-A M	This is a math question. If the edge of a cube is doubled, what is the effect on the surface area of the figure?	it is quadrupled; increased by a factor of 4 M
CONTINUED ON REVERSE SIDE		

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M 90
C 60



#	Question	Answer
1	General Dag Hammarskjold was killed in a plane crash in 1961. What position did he hold at the time of his death?	United Nations Secretary-General C
2	Francisco Madero was deposed in early 1913 by what reactionary general?	(Victoriano) Huerta X
3	Recently, this city was praised as "a free society under the rule of the law." That comment came from former governor Chris Patten, who was visiting for the first time since the summer of 1997. Patten was the final governor of what former crown colony now returned to China?	Hong Kong C
4	What kind of dependent clause completes the sentence, "I heard what you said"?	noun clause M
5	This is a math question. What is the median of the following set of eight scores? 2, 4, 8, 8, 10, 11, 12, and 17.	nine (i.e., the interpolated middle value) M
6	Anterior cruciate [KRU-she-ate] ligament, lateral miniscus, posterior cruciate ligament, medial meniscus, lateral collateral ligament, and patella. In what part of the body are all these parts located?	knee M
7	If an intracutaneous injection goes into the skin, what kind of injection goes just beneath the skin?	subcutaneous C
8	This is a math question. A set of cards is numbered from 1 to 36 and shuffled. What is the probability that the first card picked will be divisible by either 4 or 9?	1/3; 1 chance in 3 SC M
9	The following is an anagram for what author? "I am a weakish speller."	(William) Shakespeare X
10	What is a "hinkity pinky" for a feeling of being ill, weak, or fatigued from consuming too much of a dressing made from beaten raw egg yolk, oil, lemon juice, and seasonings?	mayonnaise malaise X
11	In Longfellow's poem, what is the date of Paul Revere's Ride?	eighteenth of April, in Seventy-five; April 18, 1775 X
12	What kind of ocean wave might have a height of one to three meters in deep water but a height of 15 to 30 meters near the shore?	tsunami [soo-NAH-me] C
13	In the 12th century, Cuzco became the capital of what civilization?	Inca C
14	This is a math question. Given that neither x nor y = 0, simplify the following: the quantity x over 2y divided by the quantity 3x over y.	1/6 SC M
15	Jean Ango, Francois LeClerc, Jacques deSore, John Hawkins, and Francis Drake. In the vicinity of what sea did all of these privateers work in the 16th and 17th centuries?	Caribbean (Sea) X

45C
50M



VHSL SCHOLASTIC BOWL
1998-99

*****CONFIDENTIAL*****

QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 7

*****CONFIDENTIAL*****



#	Question	Answer
1	Adolescence is the period that ends with adulthood. With what developmental event does it begin?	puberty
2	What is the English title of the story originally entitled "Die Veerwandlung [Dee Veer-vand-loong] " by Franz Kafka?	The Metamorphosis
3	This is a math question. Function composition and matrix multiplication are, but exponentiation, subtraction, and division are not. In general, it is the property of an operator that the quantity a plus b [Quizmaster: Pause] plus c equals a plus the quantity b plus c . What is this mathematical descriptor, often discussed in conjunction with commutativity?	associative; associativity
4	The first building with this name exhibited its designer's attempt to reform the prevailing Georgian architectural style by applying the principles of the Italian architect Palladio. But it was rebuilt beginning in 1796 in the then-prevailing Neoclassical style, with an octagonal dome roof. What is this building in Virginia, home to Thomas Jefferson?	Monticello
5	What four-letter suffix indicates a state or quality of being, or an example of this state or quality, turning adjectives into nouns?	tion
6	This is a math question. The mysterious "Triple-Seven Club" uses an unusual calendar: the year is 365 days long, but is divided into seven months and one festival period. Each month has seven seven-day weeks. Assuming there are no leap-years, how many days long is the festival period?	22 [$7^3 = 343$. $365 - 343 = 22$.]
7	Its hardness is 2.5. Its cleavage is in 3 directions, parallel to the faces of a cube. It is opaque, gray, and has a metallic luster. Its chemical formula is PbS . What is this mineral?	galena; lead sulfide
8	Cinque Ports is the ancient name of the five ports of Sandwich, Dover, Hythe, Romney, and Hastings, all located on what channel?	English (Channel)
9	This American hero, who was the personal guest of Hermann Göring at the opening of the 1936 Olympics in Berlin and received the U.S. Congressional Medal of Honor, was known as the Lone Eagle. Who is he?	(Charles A.) Lindbergh
10	What term that describes cars powered by both electricity and gasoline can also indicate an offspring parented by different species?	hybrid
11	Based on its structure, the following is what kind of stanza? Thy voice is on the rolling air. / I hear thee where the waters run. / Thou standest in the rising sun, / And in the setting thou art fair.	quatrain
12	This passage is about what Hindu philosophical principle? Those whose deeds in former lives were good get desirable lives such as those of Brahmins, but those whose lives were bad get such lives as those of Candalas, dogs or swine.	karma
13	What 1953 movie was the first ever filmed in the widescreen process CinemaScope?	The Robe
14	What is the governmental system where the executive is chosen from within the legislative branch?	parliamentary
15	This is a computer question. Examples include Blowfish, IDEA, GOST, ElGamal, Skipjack, RC4, PGP, RSA, and DES, a list that includes both symmetric and public key varieties. What is the usual term for what these algorithms do to help keep data private?	encryption algorithms (don't accept "hashing algorithms")

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#	Question	Answer
1-A	Originally a people of Tartar stock, the Manchus settled what area in northeast China that includes present-day Liaoning, Jilin, and Heilongjiang?	Manchuria
1-B	Some 150 of Hitler's political opponents and rivals were killed in 1934. By what name did this event become known, starting with "night of the BLANK"?	long knives
2-A	This is a math question. An acute angle has a sine of one-fourth. What is the cosine of this angle, using the formula sine squared x plus cosine squared x equals one?	the square root of 15 over 4
2-B	What property of a chemical reaction is lowered by using a catalyst?	activation energy; reaction barrier
3-A	Which of the three Gorgons was mortal?	Medusa
3-B	This former Chilean president was charged with crimes and in December 1998 was fighting extradition in the British court system. Who is he?	(Augusto) Pinochet
4-A	What four-syllable adjective indicates creatures that can maintain a constant body temperature?	endothermic
4-B	This is a math question. What is the secant of an angle of 45 degrees?	the square root of 2
5-A	The Basque language developed in the immediate vicinity of which mountains?	Pyrenees
5-B	In Alfred Tennyson's poem Crossing the Bar, who is the Pilot he hopes to see face to face?	God; the Lord; Supreme Being
6-A	In 1960, moviegoers were used to walking in at any point during a film, but the director of this movie insisted that the audience had to watch it from the beginning. This was because the star, Janet Leigh, only appeared in the first half before her character was killed. What was this Alfred Hitchcock movie, which also starred Anthony Perkins as Norman Bates?	Psycho
6-B	Reminiscent of the sound made by some members of the order Hymenoptera, fashionable and important-sounding terms or phrases used more to impress than inform are known as what kind of words?	buzzwords
7-A	This is a math question. A right triangle has angles of 30, 60 and 90 degrees, and a hypotenuse of 4. What is the measure of the shorter leg of this triangle?	two
7-B	If a body is at equilibrium, how would you describe its velocity?	constant
8-A	What effect could one calorie have on one gram of water?	raise temperature one degree celsius
8-B	What is the Latin word for an autopsy?	postmortem
9-A	What words were used by Scott Carpenter to wish his fellow-astronaut John Glenn well on the first orbital mission by a U. S. astronaut?	Goodspeed, John Glenn.
9-B	This is a computer question. If negative numbers are represented in this way, they can be added and subtracted using the same gates as positive numbers, making it simpler to design microprocessors. In addition, the negative of a number can be found by inverting every bit and adding one to the result. What is this notation, in which negative 1 is written as a string of 1s.	two's complement notation
10-A	One of Gandhi's purposes in his march to the sea in 1930 was to break the British monopoly on what commodity?	salt
10-B	Scholar and statesman, author of "Utopia," and martyr, Sir Thomas More was, as one contemporary called him, "a man for all BLANK"	seasons

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1	The Franciscans, Dominicans, Augustinians, and Carmelites are four great mendicant orders. What are mendicants?	beggars; people living on alms
2	This is a math question. The median is located at what percentile of a distribution?	50th
3	What is an interdisciplinary supportive care program addressing the physical, spiritual, social, and economic needs of terminally ill patients?	hospice (program)
4	His eldest son is killed senselessly, his daughter is raped and murdered, an enemy bomb reduces his bank to rubble, burying his only remaining child, and his wife abandons him. Who is this title character who, in the play by Archibald Macleish, avows his faith, saying "The Lord giveth. The Lord taketh away. Blessed be the name of the Lord"?	J.B.
5	In one of the most surprising outcomes of the 1998 elections, the Reform Party candidate and former wrestler, "The Body" was elected governor of Minnesota. Who is "The Body"?	(Jesse) Ventura
6	What is the two-word name for materials moved along the bottom of a stream that are neither suspended nor in solution?	bed load
7	What is the colorless or pale yellow water-soluble protein obtained by boiling collagen with water and evaporating the solution?	gelatin
8	Stage lighting designers use four basic types of light. What is the fourth, in addition to the profile spot, the fresnel spot, and the beam light?	floodlight
9	This is a math question. What are the coordinates of the vertices of the hyperbola described by the following equation: $x^2/64 - y^2/25 = 1$ [x squared over 64, minus y squared over 25 = 1]	(8, 0) and (-8, 0)
10	It started with a 20,000 pound wager in 1873 at London's Reform Club. At the time, London to Suez was seven days' journey, from there to Bombay thirteen. Thirty-one days to San Francisco, then a week's hop to New York, and nine days back to London, leaving 13 days of slack. This describes a fictional trip taken by Phineas Fogg in what novel by Jules Verne?	Around the World in Eighty Days
11	What type of lenses have negative focal lengths?	diverging lenses
12	An early one, written in 1607, was described as favola in musica and it retold the legend of Orpheus and Eurydice [yoor-ID-i-see]. What is this musical form pioneered by Claudio Monteverdi?	opera
13	Gertrude Stein said that you can love a name, and if you love a name then saying that name any number of times only makes you love it more. What quote of hers about a flowering perennial illustrates this?	a rose is a rose is a rose
14	This is a math question. The concept first appeared in a mathematical work by a Hindu named Aryabhata [Air-EE-ab-ha-ta]. He used the word jya [J-Y-A], which became jiba and then, in later writings, jaib. Since jaib is Arabic for fold, a form of the Latin for fold is what we use today. What is this term, which is the ratio of the lengths of the opposite side and the hypotenuse of a right triangle?	sine.
15	What particularly cruel ruler of the Roman Empire once appointed his horse to the Senate?	Caligula

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**VHSL SCHOLASTIC BOWL
1998-99**

*******CONFIDENTIAL*******

**QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 6**

*******CONFIDENTIAL*******



#	Question	Answer
1	This is a math question. What is the next number in the sequence 1, 2, 5, 14, 41, 122?	365 [3 times n-th term minus one = the n+1th term]
2	For Eddie Rickenbacker's first mission in 1918, his flying partner was Captain James Norman Hall, who later became famous as the coauthor of what novel about an incident on an English war vessel?	Mutiny on the Bounty
3	What does the following describe? Typically sedimentary, a hard, usually rounded or nodular rock mass differing chemically and physically from the enclosing rocks.	concretion
4	Before he became known as Malcolm X, what was his last name?	Little
5	It consists of a steel rod about 7 inches by 1/8 inch, and has a pivot around which the rod oscillates. Governed by a double pendulum, it can be made to oscillate from 40 to 208 times in a minute. What is this apparatus, invented by Johann Mälzel, and used for fixing the tempo of a composition?	metronome
6	The wrath of Heracles was brought upon these creatures many times. Two of them tried to kidnap women betrothed to him, but some others were his friends. What are these half-man creatures of Greek myth?	centaurs
7	Thanks to the thick, plentiful plumage that covers its feet right down to its claws, it can withstand the ice and snow of the far north. What is this owl?	snowy owl; great white owl
8	The russet habit of Friar Tuck indicates he is a member of what religious order?	Franciscan
9	What nickname is shared by the following men: Colonel Meecham in The Great Santini; "Night Court" bailiff Nostradamus Shannon; and Admiral William F. Halsey?	Bull
10	So great was this woman's beauty that jealous Venus sent her son to curse her, only for him to fall in love with her. What eventual husband of Cupid also gives her name to the Greek for "soul"?	Psyche
11	This is a math question. Identify one point where the function $y = \cos(x + \pi)$ hits the x-axis?	EITHER: $\pi/2$; $3\pi/2$; any odd integer times π over 2
12	The following passage is about what American military leader? "When the general returned to the United States in 1951, the first time he had set foot in the country since 1935, he was greeted with hysterical enthusiasm."	(Douglas) MacArthur
13	In recent history there has been a global flu epidemic every 10 to 40 years. What flu caused the most recent epidemic, in 1968-69?	Hong Kong (flu)
14	This is a math question. It's the Euler characteristic for solids of genus one. For any convex polyhedron, this integer equals the sum of the numbers of faces and vertices minus the number of edges. What does this number equal in the case of the cube?	two
15	Ulysses Grant was personally distraught when Charles Sumner blocked a treaty for the American annexation of Santo Domingo. What is the current name of that country?	Dominican Republic

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VHSL DISTRICT COMPETITION
ROUND 5, DIRECTED SETS

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7-B	John Field invented the nocturne, but it was this composer who made the nocturne famous. Hailed by Schumann as a genius, he spent much of his adult life in France before dying of tuberculosis in 1849. Who is this Polish composer, also a talented pianist?	(Fryderyk or Frédéric) Chopin
8-A	What consonant is often silent when it appears before the letter "n," the letter "s," or the letter "t"?	"p"
8-B	This is a math question. What is the denominator in the quadratic formula?	2a
9-A	This is a math question. A circle has a diameter of eight. How many degrees are in an arc that has a length of pi?	45 (degrees)
9-B	In 1877, who did Benjamin Disraeli induce to adopt the title "Empress of India"?	Queen Victoria
10-A	How many moles of potassium chloride are formed in the single-displacement reaction between one mole of chlorine gas and excess potassium iodide?	two $[Cl_2 + 2 KI \rightarrow I_2 + 2 KCl]$
10-B	The exclusionary rule states that evidence secured by illegal means and in bad faith cannot be introduced in a criminal trial. It is based on which amendment to the Constitution?	5th amendment

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#	Question	Answer
1-A	This is a math question. Annie needs to replace the vinyl floor in her studio apartment. The floor is an equilateral triangle with sides 20 feet. If Annie uses 1.73 as an estimate of the square root of three, what is the square footage of the floor?	173 (square feet) [$A = (1/2)BH$; Base=20; Height=10 times the square root of 3.]
1-B	If your life followed a primrose path, what would your life be like?	life of worldly ease; life of pleasure
2-A	Who did Chief White Bull kill in this account from an 1876 battle in Montana? "I charged. A tall, well-built soldier with yellow hair and mustache threw his rifle at me and we wrestled in the dust. I wrenched the pistol from his hand and shot him in the head."	(George) Custer
2-B	Although this adage about ownership is in fact not true much of the time, what is sometimes said to be "nine-tenths of the law?"	possession
3-A	During World War II, when Gen. Douglas MacArthur said "I shall return," to what country would he be returning?	Phillipines
3-B	Around 1918, a strain of what disease reached the United States and caused about 400,000 deaths, by far the most devastating epidemic in American history?	influenza; flu
4-A	What character in "The Canterbury Tales" had the authority from the pope to sell indulgences?	the pardoner
4-B	This is a math question. Sarah wants to buy a CD costing ten dollars, including tax. She has no source for money other than her dad, who gives her a penny on November 30, two pennies on December 1, four on the 2nd, and so on, doubling her allowance every day. If she saves all this money, by what day will she have enough to buy the CD?	December 9 [$1 + 2 + 4 + 8 + 16 + 32 + 64 + 128 + 256 + 512 = 1023$]
5-A	Different species were considered appropriate for the various ranks of society, the eagle for emperors, gerfalcons for kings, peregrines for earls, goshawks for yeomen, and sparrowhawks for priests. What is the sport?	falconry; hawking
5-B	As what part of speech are the infinitives used in this example? To err is human but to purr, feline.	noun
6-A	He died in 1998. Who is this son of Italian immigrants who could not read music but wrote ten hit songs, had no business experience but ran several successful companies, and had no political experience but won the Palm Springs mayoralty by the largest margin in history?	(Sonny) Bono
6-B	With regard to genetics, what does polysomic mean?	having an excess number of one or more chromosomes
7-A	What type of electromagnetic radiation has the longest wavelength?	radio waves
CONTINUED ON REVERSE SIDE		

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13	What is the family of elements, originally thought to be completely unreactive, that forms unusual compounds that often violate the octet rule, such as xenon [ZE-non] tetrafluoride ?	noble gasses
14	At the joint premiere of these two symphonies in 1808, there was a severe quarrel between the composer, Beethoven, and the musicians. What are the two symphonies, one nicknamed Pastoral and the other with an instantly recognizable opening?	5th and 6th symphonies; 5th and Pastoral
15	The Lena Goldfields Strike of 1912 was one of the significant events that led to what revolution in 1917?	Russian Revolution

#	Question	Answer
1	Who is missing from this list of America's first group of astronauts? Scott Carpenter, Gordon Cooper, John Glenn, Gus Grissom, Walter Schirra, and Deke Slayton.	(Alan) Shepard
2	In response to terrorism, in 1998, U.S. military forces fired about 80 cruise missiles at targets in Sudan and what other country?	Afghanistan
3	What is the meaning of the "to-wit" in the following excerpt? "... the injured passengers, to wit: Fred Farnsworth, Fran Foster, and Frank Fillmore Fiala ..."	that is to say; namely
4	This is a math question. Let P of n be any mathematical theorem about the integer n. If you can prove that whenever P of n is true then P of n+1 must also be true and you can also prove P of m for some integer m, then it follows P is true for every integer greater than or equal to m. What is this method of proof, common in number theory?	proof by induction
5	What are two conditions that might explain why two blocks of wood of the same size and shape exhibit different displacements in two different bodies of water?	ANY TWO: wood -- density; water - - temperature and salinity
6	What Hebrew prophet is celebrated in the folk song, "Pharaoh's Army Got Drowned"?	Moses
7	This word can mean either a signal on a drum or bugle, recalling soldiers to their barracks at night, or an indelible pattern often associated with sailors, bikers, and Polynesian warriors. What is this word?	tattoo
8	This is a computer question. Take a list of objects and, in sequence, compare each one to the one following it. If the latter is smaller, swap them and continue. Go through the entire list once for every element in the list. When you are done, what simple, but slow, sorting routine have you implemented?	(naïve) bubble sort
9	A single lithospheric plate may simultaneously undergo a softening and melting process called consumption and grow by what process?	accretion
10	The four freedoms enumerated by Franklin Roosevelt in his 1941 state-of-the-union address included freedom of worship, freedom of speech and expression, freedom from fear of war, and what other freedom?	from want
11	This is a math question. Both x and y coordinates are required. The parabolic equations $y = x^2 - x + 1$ and $y = -x^2 + 3x - 1$ intersect at exactly one point. What is that point?	(1, 1) [Add the two equations yielding $2y = 2x$. Substitute this into the first one to get $x = x^2 - x + 1$ so that $x = 1$. Therefore $y = 1$.]
12	In conclusion she shall watch all night. And if she chance to nod I'll rait [rate] and with the clamor keep her awake. This is a way to kill a wife with kindness and thus I'll curb her mad and headstrong humor. The preceding is in what Shakespearean play?	The Taming of the Shrew
CONTINUED ON THE REVERSE SIDE		

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**VHSL SCHOLASTIC BOWL
1998-99**

*******CONFIDENTIAL*******

**QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 5**

*******CONFIDENTIAL*******



#	Question	Answer
1	What outlaw of the Old West, with the surname of a fish, was killed in Round Rock, Texas, in 1878?	(Sam) Bass
2	They live in huge colonies of up to 10 million. Formerly confined to Louisiana, this Formosan variety is now happily chewing its way through real estate from Virginia to Hawaii. What creatures are described in this passage?	termites
3	This is a math question. The linear dimensions of one triangle are four times that of the corresponding dimensions of another triangle. What is the ratio of the larger area to the smaller?	16 to 1
4	In the following example, what kind of phrases are parallel? "Hillary could not decide whether to drop by the White House or to see what was cooking at the Pentagon."	infinitive phrases
5	Norman Rockwell painted hundreds of covers for the Saturday Evening Post and hundreds more for what other magazine?	Boy's Life
6	A 1905 entry in his diary at Yale reads, "the village virus—I shall have to write a book of how it getteth into the veins of a man good and true." He fulfilled that promise 15 years later, though he described not a man but a woman, Carol Kennicott, as the victim of small-town bourgeois conformity. Who is this Minnesota-born author of Main Street?	(Sinclair) Lewis
7	This is a math question. Money changing on the Rongovian-Fredonian border trades 80 Fredonian pengos for 100 Rongovian going to Fredonia, and trades 70 Rongovian pengos for 100 Fredonian travelling to Rongovia. At the end of one round trip, without having spent any money, a Rongovian is left with 280 pengos. How many pengos did he have to start his journey?	500 (pengos)
8	Randy Shilts' work, And the Band Played On, examines the first five years of the development of what epidemic in the United States?	AIDS
9	Who is the author of the poem that begins, "I wandered lonely as a cloud, / That floats on high o'er vales and hills, / When all at once I saw a crowd, / A host, of golden daffodils"?	(William) Wordsworth (from The Daffodils)
10	Bruno Richard Hauptmann was convicted of murder in a dramatic 1935 trial. Who was he convicted of murdering?	Lindbergh's baby
11	Written as a single paragraph on a 250-foot roll of paper, its account of Carlo Marx, Dean Moriarty, and Sal Paradise's experiences drifting across America caught the imagination of a movement. What is the name of this autobiographical travelogue by Jack Kerouac?	On the Road
12	This is a math question. What is the contrapositive of this conditional? If 3 is not prime, then 9 is not odd.	If 9 is odd, then 3 is prime.
13	A physicist reports a measurement of 245 plus or minus 3 milligrams. To the nearest tenth, what is the percent of uncertainty?	plus or minus 1.2 percent
14	When it was first offered in 1851, it was called the Hundred Guinea Cup because that was the amount the London silversmith had charged for it. What is this silver ewer (u'-er) that is 27 inches tall, weighs 134 ounces, and is still one of the most coveted prizes in sailing?	America's Cup
15	The following quote appeared in the first issue of what 19th century periodical? "I will be as harsh as truth and as uncompromising as justice. I am in earnest. I will not equivocate - I will not excuse - I will not retreat a single inch - AND I WILL BE HEARD."	Liberator

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VHSL DISTRICT COMPETITION
ROUND 4, DIRECTED SETS

CONFIDENTIAL

8-A	This is a computer question. Less well-known ones include Red Brick, Informix, Illustra, FoxPro, Paradox, and the "2" in Lotus 1-2-3. More popular ones include Microsoft Access, Sybase, Microsoft SQL Server, Oracle, and DB/2. What is this type of computer program, the mainstay of MIS departments, useful for maintaining lists of records?	database
8-B	What term can mean either the addition of hydrogen to or the removal of oxygen from a compound?	reduction
9-A	We have talked long enough in this country about equal rights. It is time now to write the next chapter -- and to write it in the books of law, is a quote from which U. S. president?	(Lyndon B.) Johnson
9-B	The first slaves in North America arrived in 1619 aboard a Dutch ship. They were sold in what colony?	Jamestown, Virginia
10-A	Jeffrey Tambor plays insecure sidekick Hank Kingsley, and Rip Torn plays Artie, the peripatetic producer. What is this comedy series that debuted in 1992 and gives a behind-the-scenes look at a fictional late-night talk show?	The Larry Sanders Show
10-B	This is a math question. The hour and minute hands can be said to form a "mustache" if one hand is anywhere between the 3 and the 6 while the other hand is anywhere between the 6 and the 9. For how many hours a day do the hands form a "mustache"?	3 [for every hour between 3 and 9 (a.m. and p.m.), the minute hand is in the appropriate quadrant for 15 mins. 12 hours times 15/60 = 3 hours.]

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#	Question	Answer
1-A	What word completes this quote by a writer who deplored the declining quality of life after the Roman Empire replaced the Roman Republic? "Two things only the people anxiously desire -- bread and WHAT?"	circuses
1-B	What American novelist could have but fortunately did not give this name to one of his novels, "The Vibrations in the Range Between 20 and 20,000 Hertz and the Violent Wrath."	(William) Faulkner
2-A	What does one do when she genuflects?	bends or lowers a knee to the ground; kneels
2-B	After Marco Polo's return from China in 1295, war broke out and he was taken prisoner. It was in prison that he dictated the story of his travels in the Orient. People of which Italian city took him prisoner?	Genoa
3-A	What element is in all stannic and stannous compounds?	tin
3-B	In physics, what term is used to describe the rate at which work is done?	power
4-A	This is a math question. Ruby never wears matching shoes to school, though she must always wear a left shoe and a right shoe. She has two identical pairs of black shoes and two identical pairs of white shoes strewn across her closet floor. If Ruby randomly grabs two shoes, what is the probability that she will wear those two shoes to school?	2/7; 2 chances in 7 [No matter which shoe she grabs first, there will be exactly two that are both the opposite foot and the opposite color.]
4-B	What literary device is used in "The Highwayman" when the author calls a road "a ribbon of moonlight," and the Moon "a ghostly galleon"?	metaphor
5-A	The percentage of what element increases as peat is transformed into anthracite?	carbon
5-B	The following passage is an allusion to a poem by what English author? "In summertime, a young man's fancy / turns to giant fireballs and gruff / cops who don't play by the rules."	(Alfred) Tennyson
6-A	In 1998, an international team of 120 physicists reported that a subatomic particle long thought to be utterly without mass actually weighs a tiny fraction of the mass of an electron? What is this particle?	neutrino
6-B	This is a math question. What is the sine of an angle in standard position in the xy-plane whose terminal side passes through the point (-12, 5) [negative 12, comma, 5]?	5/13 (five thirteenths)
7-A	In one of Lewis Carroll's poems, we learn that a Boojum is a dangerous kind of what?	Snark
7-B	Ragtime, the earliest form of jazz, began its rise to popularity with the arrival in 1885 in St. Louis of what pianist and son of a former slave?	(Scott) Joplin
CONTINUED ON REVERSE SIDE		

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#	Question	Answer
1	What is the name for a line at the beginning of a magazine or newspaper story that indicates the author?	by-line
2	This is a math question. Two rays extend from the origin of a Cartesian coordinate system, each of them restricted to positive values of x. One of them has the equation $y = 4x$. The other has the equation $y = -x/4$ [$y = \text{negative } x \text{ over } 4$]. In degrees, what is the interior angle formed by the rays?	90 degrees
3	What oath begins with these words? "I swear by Apollo the physician, and Asclepius and Hygeia and Panacea ..."	Hippocratic (oath)
4	Muhammad Ali's public appearances in the 1990s were limited as a result of his struggle with what disease?	Parkinson's (disease)
5	What is a three-word ambiguous sentence that could have both of these meanings? (1) They are capable of fishing. (2) They put fish into cylindrical metal containers.	They can fish.
6	What phrase is used to describe the concept that different branches of government have different powers?	separation of powers
7	This is a math question. I am thinking of a word that I will call "blank." In calculus, there is the blank-value theorem. In statistics, it is an average. What four-letter word would most appropriately replace my "blank"?	mean
8	The novelist Vladimir Nabokov was a passionate lepidopterist [lep-a-DOP-ter-ist]. This means he specialized in the study of what creatures?	butterflies; moths
9	What is the criminal violation of federal antitrust statutes in which several competing businesses reach a secret agreement to set prices for their products to prevent real competition?	price fixing; conspiracy
10	What does the 13th Amendment to the U. S. Constitution forbid?	slavery
11	A panel will consider changing this country's 1993 constitution to restore the office of vice-president, which was abolished after Alexander Rutskoi tried to seize power in a putsch [pooch] with Ruslan Khasbulatov. That post is becoming extremely important due to the failing health of what country's 67-year-old president, Boris Yeltsin?	Russia; Russian Federation
12	State a four-word ambiguous sentence that could have the meanings of both sentences that follow. (1) Those are some apples that are better cooked than eaten fresh. (2) Those are some people who are preparing apples through the application of heat.	They are cooking apples.
13	What luster is characteristic of stibnite, pyrite, hematite, magnetite, bornite, and galena?	metallic
14	The American author Richard Dana was instrumental in having what punishment, once prevalent on sailing ships, outlawed?	flogging
15	This is a math question. In Cartesian coordinates, one side of a square has its vertices at the origin and at the point (3,11) [three, comma, eleven]. What is the area of that square?	130 [3 squared plus 11 squared]

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VHSL SCHOLASTIC BOWL
1998-99

*****CONFIDENTIAL*****

QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 4

*****CONFIDENTIAL*****



#	Question	Answer
1	"America is never wholly herself unless she is engaged in high moral principle. We as a people have such a purpose today. It is to make kinder the face of the nation and gentler the face of the world," is a quote from which recent U. S. president?	(George W.) Bush
2	An alpha particle is an ion of what element?	helium
3	This is a computer question. What letter between angle brackets is the HTML code to make the following text boldface?	(the letter) b
4	Buddhism grew out of Hinduism, beginning about 2,500 years ago. Who was the Hindu prince who was its founder?	Siddhartha Gautama; Siddhartha
5	To utterly defeat or destroy someone completely is to make what kind of meat of him?	mincemeat
6	What do geologists call a naturally occurring inorganic element or compound with invariable chemical composition and a unique orderly internal arrangement of its atoms, ions, or molecules?	mineral
7	Methods used in medieval times to determine guilt included putting an arm in boiling water, submerging people in water, or walking across red-hot iron. By what name were such methods known?	trial by ordeal
8	This writer was noted for his psychological realism, and he was criticised for his sympathetic treatment of the title character of his "Medea." Who is this Greek dramatist of <u>Alcestis</u> and The Trojan Women, the last of the three great Greek tragedians?	Euripides
9	This is a math question. If my two-pan balance weren't broken, five pounds on the left side would be balanced by five pounds on the right side, as the arms would both be 5 inches long. But now the fulcrum has been pushed one inch right-of-center, making the left arm 6 inches. If a five-pound weight is placed in the left pan, how many pounds must be placed in the right pan to balance it?	7.5 pounds
10	All mollusks have a muscular organ that may be used for locomotion and capturing prey. What is it?	foot
11	What is the process through which artists attempt to make forms and figures perfect, based on the pervading cultural values or their own mental images?	idealization; idealism
12	In an 1867 short novel, this author created the character of Aleksey Ivanovich, whose mania is a reflection of the author's own weakness. Who is this author of "The Gambler," who also wrote "The Idiot" and "Crime and Punishment"?	(Fyodor) Dostoevsky
13	This is a math question. What are the x and y-intercepts in the following equation? $2x + 3y = 6$	x-intercept is 3, y-intercept is 2
14	In 1998, two American military pilots were court-martialed for their part in an incident that sent 20 people to their deaths in Italy? What happened?	their jet sliced through a ski lift cable
15	What title was given to the national hero of Spain and champion of Christianity against the Moors, who, otherwise, was known as Rodrigo Dias de Vivar?	(El) Cid

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VHSL DISTRICT COMPETITION
ROUND 3, DIRECTED SETS

CONFIDENTIAL

9-A	He won major league batting titles in three different decades, but is equally well known for the "pine tar" incident. Who is he?	(George) Brett
9-B	In what year of the post-revolutionary period did British forces invade Washington, D. C., setting fire to the Capitol and White House?	1814
10-A	This is a computer question. Choose the middle element of a sorted array and compare it to the one you are looking for. If it is smaller, call yourself with the upper half of the array. If it is larger, call yourself on the lower half. What is this efficient searching algorithm that shares its name with a simple number system?	binary search
10-B	The following sentences include what category of pronouns? Several still had scruples. Few found fractals fascinating. One must guard against indiscretion.	indefinite

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#	Question	Answer
1-A	Who is the subject of this news passage from 1900? "She entered the saloon and without a word, sent a large stone whizzing through an oil painting of Cleopatra nude at the Roman bath, and then sent another through a large mirror, also breaking many bottles."	(Carrie) Nation
1-B	This excerpt is about what American outlaw? "There is only one American bandit who is classical, who is to this country what Robin Hood or Dick Turpin is to England."	Jesse James (Note: If answer is James, ask for first name.)
2-A	How many neutrons are in the nucleus of tritium?	two
2-B	This passage is about what product introduced in 1998? "Who would have guessed that a little baby-blue tablet designed to restore potency would pack such a wallop?"	Viagra
3-A	What is the meaning of the word "inexorably"?	relentlessly; unyieldingly
3-B	What kind of organic acids are the following: valine, serine, lysine, asparagine, glutamine, proline, and histidine?	amino acids
4-A	This is a math question. What is the period, in radians, of the function $y = \sin$ of $2x$?	π
4-B	What song is about three myopic, perambulating rodents that circumnavigated the agriculturalist's spouse until she excised their trailing extremities with a cutting utensil?	Three Blind Mice
5-A	Tom and Ray Magliozzi [MOL-ya-chi], auto mechanics with degrees from MIT, have one of the most popular shows on National Public Radio. What are the nicknames they use on their show, Car Talk?	Click and Clack ; The Tappet Brothers
5-B	There are two ghostly servants who haunt the Bly House in "The Turn of the Screw." One is Miss Jessell. Who is the second?	(Peter) Quint
6-A	What is the upper house of the British Parliament called?	House of Lords
6-B	This is a math question. For what values between 0 and 2π is the equation \sin of x minus \cos of x equals 0 satisfied?	$1/4 \pi$, $5/4 \pi$
7-A	What two-word phrase completes this line from "The Communist Manifesto"? "The history of all hitherto existing society is the history of WHAT"	class struggles
7-B	This is a math question. On Monday, Jan ran one mile in 8 minutes. On each of 6 subsequent days, she cut 20 seconds off her previous day's time. What was her average time for the mile for the week?	seven minutes
8-A	The works of D.H. Lawrence largely rest on the assumptions that humans live through their unconscious and that sexuality is central to personality. Lawrence based these assumptions on the studies of what Viennese physician?	(Sigmund) Freud
8-B	Some automobile sunroofs are windows that open by sliding backward until they disappear under the fixed roof area to the rear. This disappearance is analogous to what process in plate tectonics?	subduction
CONTINUED ON REVERSE SIDE		

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001



#	Question	Answer
1	The Wine-shop, The Jackal, The Gorgon's Head, Still Knitting, and The Footsteps Die Out Forever. These are chapter headings from what work of English literature?	A Tale of Two Cities
2	This is a computer question. Use of this operand to clear a register was common among assembly language programmers because it was faster to operate a register against itself than to directly move a zero into it. As a logical operator it is the complement of the equality operator and is often represented by a plus sign within a circle. What is this operator denoted in C by the caret [KAR-et]?	xor: exclusive or
3	Al D'Amato's defeat leaves this Republican as the presumptive chairman of the Senate Banking Committee. Though not on good terms with Wall Street, he won plaudits for his efforts to require a balanced federal budget. Who is this former presidential hopeful from Texas?	(Philip) Gramm
4	In February of 1945, an Allied air raid killed over 100,000 people and reduced "the Florence on the Elbe" to ashes. Fatalities were comparable to those in Hiroshima six months later. What city was this?	Dresden
5	To move your decorative Sherman tank to another part of the yard, you attach a rope to it which makes an angle of 20 degrees with the vertical. You pull for 6 minutes with a force of 400 N, but the tank does not budge. How much work did you do?	none
6	This is a math question. When 6 different coins are tossed, what is the number of possible outcomes?	64; 2 to the 6th power
7	According to legend, the highest mountain on Crete was the birthplace of Zeus and also the Trojan hill on which Paris pastured his flocks. What is this mountain?	Mount Ida
8	She Was A Phantom of Delight. Sonnet. The Happy Warrior. All of these poems were written by what English romantic poet?	(William) Wordsworth
9	This is a math question. The distance in yards that a golf ball carries before bouncing can be calculated by subtracting 103 from the product of 1.5 times the velocity in feet per second. If a ball leaves the club at 160 feet per second, how many yards will it carry?	137
10	This writer was born in 1944 to Georgia sharecroppers, but she eventually went to college and became active in the civil rights movement. Her early novels, including Meridian, as well as her poetry collections, established her reputation as a chronicler of lives of African-American women. Who is this author of "The Temple of My Familiar" and "The Color Purple"?	(Alice) Walker
11	What Greek word meaning "city-state" is the origin of the English words "politics" and "policy"?	Polis
12	What is the common name for otitis media or otalgia?	earache; ear infection
13	It consists of eight vertical cloth panels, all roughly the same size, stitched together in a simple construction, and bound with a decorative sash called an obi. What is this traditional Japanese costume?	kimono
14	What historic Supreme Court case legalized a woman's private right to an abortion under certain circumstances?	Roe v. Wade
15	What scientific law states that in any medium of uniform composition, light travels in straight lines, or rays?	rectilinear propagation

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VHSL SCHOLASTIC BOWL
1998-99

*******CONFIDENTIAL*******

QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 3

*******CONFIDENTIAL*******



#	Question	Answer
1	The words shouted by John Wilkes Booth after leaping to the stage from Lincoln's presidential box also comprise the motto of which state?	Virginia
2	In vertebrates, what is the layer of flat cells that lines the heart, blood vessels, and lymph vessels?	endothelium
3	Implied second person pronouns are placed in parentheses. Predicate nominatives and adjectives appear to the right of a tilted slash while direct objects appear to the right of a straight one. Adjectives, adverbs, articles, and prepositions are placed on descending diagonal lines below the words they modify while the subject and verb receive top billing. What is this process of drawing the structure of a sentence?	sentence diagramming
4	This is a math question. Enough buzzer systems are needed to run an academic tournament in which 22 teams will be evenly split into two divisions that don't play against each other. How many buzzer systems are required?	10 [Each division has 11 teams, so 5 games at once, times 2 divisions = 10.]
5	What method of mining uses a strong jet of water to move deposits of sand and gravel that contain an ore?	hydraulic mining
6	In early 1998, President Ernesto Zedillo attempted to deal with the four-year-old Zapatista insurgency in which southern state of Mexico?	Chiapas
7	This synopsis is about what poem? While members of the crew die in agonies of thirst, the seaman himself lives on in a state of 'life-in-death' until he blesses some water snakes and the albatross hanging around his neck falls into the sea.	Rime of the Ancient Mariner
8	This is a math question. What is the sine of an angle of 120 degrees?	square root of 3 over 2
9	Which continent has the most earthquakes?	Asia
10	What is the common name for a loud flourish of trumpets or other brass instruments, usually as an introductory piece?	fanfare
11	He died in 1902 from an appendix operation before he could begin writing the final novel in his Trilogy of the Wheat, whose first and second parts were The Octopus and The Pit. Who is this American best known for the story of a dentist, McTeague?	(Benjamin Franklin) Norris
12	Museums in Baltimore, San Diego, and Portland are collaborating to show 22 paintings that this man created late in life at Giverny, while the Museum of Fine Arts in Boston is currently showing more than 80 of his 20th-century works, including variations on Water Lilies. Who is this French painter whose Impression: Sunrise gave its name to a movement?	(Claude) Monet
13	UV-B rays, the kind blocked by most suncreens, cause sunburn and skin cancer. What effect does exposure to UV-A rays have on the skin, as revealed by research reported in 1998?	premature aging; wrinkling and sagging
14	This is a computer question. Previously called the Computing Tabulating Recording Company, it was the birthplace of PL/1, and its employees designed APL and FORTRAN. The Winchester disk drive and the copper chip are other innovations by what computer company that, in 1981, introduced the PC?	IBM; International Business Machines Corporation
15	Virginia general district and circuit courts share civil cases involving up to what maximum dollar amount?	\$7,000

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VHSL DISTRICT COMPETITION
ROUND 2, DIRECTED SETS

CONFIDENTIAL

9-A	This water-soluble compound is the major nitrogenous end product of protein metabolism and the main nitrogenous component of the urine in mammals. What is it?	carbamide; urea (NOT uric acid)
9-B	Following the resignation of Newt Gingrich as Speaker of the House in 1998, who was elected to replace him?	(Bob) Livingston
10-A	This is a math question. Given that $7x - 12y + 7 = 182$, what is the value of x that makes the equation a true statement if $y = -7$ [$y = \text{negative } 7$]?	13
10-B	Passed in 1787, what law provided for establishment of territories for land north of the Ohio River and east of the Mississippi and outlined the rules for setting up new state governments?	the Northwest Ordinance

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Q #	Question	Answer
1-A	The first 10 Amendments, what is the name for the part of the US Constitution which specifically addresses the issue of limited government?	Bill of Rights
1-B	Inman Jackson, Goose Tatum, Marques Haynes, Curley Neal, and Meadowlark Lemon. These athletes all played for what team?	Harlem Globetrotters
2-A	This recent two-CD set includes songs by Michael Bolton, Placido Domingo, R.E.M., Bruce Springsteen, and Barbra Streisand. What is this tribute album named for a recently deceased member of the British royal family?	Diana, Princess of Wales
2-B	The separation of church and state is provided for in what amendment to the Constitution?	1st Amendment
3-A	What new literary genre was introduced by Edgar Allan Poe in 1841?	detective story; ratiocinative
3-B	What term taken from the Greek language indicates a song of praise to the gods?	hymn
4-A	What leader of the Quakers in Pennsylvania insisted that Indians be treated fairly and thus kept peace with the Indians in Pennsylvania for more than 70 years?	William Penn
4-B	This is a math question. If you flip a fair coin, the odds of getting heads three out of three times, is 1 in 8. Suppose you have an unfair coin so that heads comes up 60% of the time. What is the probability of getting 3 heads out of 3 chances with that coin?	21.6%; .216: 216/1000; 27/125
5-A	Coptic art was created by the Christians of what country?	Egypt
5-B	If the neon-23 isotope decays to sodium-23, what type of radiation must it emit in the process?	beta particle (accept electron, but not positron)
6-A	This is a math question. Jason is the youngest of four brothers. They share the same birthday, but there is an age difference of two years between each brother and the next younger brother. If the sum of their ages is 40, how old is Jason?	$7 [x + (x + 2) + (x + 4) + (x + 6) = 40 = 4x + 12. 4x = 28. x = 7.]$
6-B	The Sun's magnetic field seems to reverse every 22 years. Sunspots wax and wane in cycles of how many years?	11
7-A	What is the frequency of electromagnetic radiation with a wavelength of 3 kilometers?	105 hertz (10 to the 5th power hertz)
7-B	This is a math question. His theorem in projective geometry states that if a hexagon is inscribed in a conic section, the three points of intersection of opposite pairs of sides are collinear. Coefficients of a binomial expansion can be calculated using his triangle, and the SI unit of pressure is also named for him. Who is this Frenchman also known for his theological wager?	(Blaise) Pascal
8-A	What adjective indicates a prosaic meaning that is neither figurative nor metaphorical?	literal
8-B	She sees the happy marriage of Konstantin and Kitty Levin and longs for a love as passionate. Thus, she leaves her husband and child for Aleksei Vronsky, but all ends sadly when she leaps in front of a train. Who is this Leo Tolstoy heroine?	Anna Karenina (accept either name)
CONTINUED ON THE REVERSE SIDE		

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11	If a copper bar is placed in a silver nitrate solution, what species is being reduced?	silver ion; silver cation [CAT-i-on]; Ag ⁺ ; silver one ion (silver is not acceptable)
12	What is the field of Physics that goes beyond the limits of classical physics and describes the structure of atoms and the motion of atomic particles?	quantum mechanics
13	Who is the White House co-worker and one-time friend of Monica Lewinsky who taped their telephone conversations?	(Linda) Tripp
14	In 1947, it flew at an altitude of 70 feet for one mile. What was the name of this enormous plane designed, built, and piloted by Howard Hughes?	Spruce Goose
15	This is a math question. A vector with infinite length would technically qualify as one. Two of them with the same point of origin define an angle. If the angle between them is 180 degrees, they form a line. What is the three-letter word for one of these things you encounter in geometry class?	ray

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#	Question	Answer
1	This passage about Richard Burton is an allusion to what paradoxical statement of William Wordsworth? "The abandoned, motherless child / was father of the volatile, / generous, self-hating man."	The child is the father of the man.
2	This is a math question. One of the two polynomial factors of the expression "x cubed minus 1" is simply "x minus 1." What is the other polynomial factor?	$x^2 + x + 1$ (x-squared plus x plus one) Any order is acceptable.
3	Who was president of the United States when the Selective Training and Service Act was signed into law, setting up the first peacetime military draft?	Franklin Roosevelt (1940)
4	Among the federal agencies making up the PHS are the National Institutes of Health, the Food and Drug Administration, and the Centers for Disease Control. What does PHS stand for?	Public Health Service
5	Starting in 1999, this Asian country plans to launch four optical and two radio satellites to provide round-the-clock environmental and disaster monitoring. What is this country that hopes to reach international standards of small-satellite technology, according to a news agency report from Beijing?	People's Republic of China; China
6	Whose sons are indicated in this passage from a C.S. Lewis work? "The beasts were in but Japheth said, 'I see one creature more belated and unmated there come knocking at the door.' 'Well let him knock,' said Ham, 'Or let him drown or learn to swim.'"	Noah's
7	This is a math question. Its sign characterizes the roots of a quadratic equation; if zero, there is exactly one repeated root. If negative, there are two imaginary roots. If positive, there are two distinct real roots. It is the name for the quantity under the radical in the quadratic equation. What is the 12-letter word for this quantity?	discriminant
8	Emanuel Leutze painted "Washington Crossing the Delaware." But Leutze painted another work while residing in Dusseldorf, Germany. The river is not the Delaware but another river as seen from the artist's window. What river is it?	Rhine River
9	In a Tennessee court case, attorney Clarence Darrow defended John Scopes, a school teacher. With what crime had Scopes been charged?	teaching evolution
10	In 1844 he wrote a work urging every citizen to protest any government policy that requires one to be "the agent of injustice to another." His work influenced Mohandas Gandhi and Martin Luther King, Jr. Who is this author of the essay "Civil Disobedience," as well as "Walden"?	(Henry David) Thoreau
CONTINUED ON REVERSE SIDE		

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**VHSL SCHOLASTIC BOWL
1998-99**

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**QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 2**

*******CONFIDENTIAL*******



#	Question	Answer
1	This author had already published two novels before he made the crucial discovery in 1927 "that my own little postage stamp of native soil was worth writing about." He then began writing about his native region around Oxford, Mississippi. Who is this author who, in his third book, Sartoris, created the county of Yoknapatawpha?	(William Cuthbert) Faulkner
2	[Quizmaster: pause after each coordinate.] This is a math question. You are trying to find the area of a quadrilateral which has its vertices at Cartesian coordinates (0, 9) [zero, comma, 9] ; (0, -3); (2, 0); and (-5, 0). This will seem difficult until you realize that the diagonals are perpendicular, meaning that the quadrilateral is a rhombus whose area is half the product of the lengths of the diagonals. What is the area?	42 [Because the diagonals are perpendicular, the area is half their product.]
3	This symphony, portions of which are reminiscent of "Swing low, sweet chariot," was written while its Czech composer was staying in New York. What is this symphony by Anton Dvorák?	From the New World; prompt on Symphony Number 9 in E minor
4	Why would it be easier to identify minerals in granite than in rhyolite?	granite has larger crystals than rhyolite
5	At one time granted the title "Defender of the Faith" by the pope, what English monarch declared himself head of the English Church and made England a Protestant nation after being refused a divorce by the Roman Catholic Church?	King Henry VIII
6	This is a math question. In an arithmetic modulo base x, every integer is congruent to the sum of its digits. What is a possible value for x?	nine; three
7	What is the number one most preventable cause of death or disability in the U. S. today?	smoking; tobacco use
8	This line is from what work by Mark Twain? "The most honest and upright town in all the region around."	The Man That Corrupted Hadleyburg
9	Nelson Mandela's new wife, Graca Machel, is the widow of the president of what other African nation?	Mozambique
10	John Keats began an ode about what object with these words? "Thou still unravished bride of quietness, / Thou foster child of silence and slow time, / Sylvan historian, who canst thus express / A flowery tale more sweetly than our rhyme."	Grecian Urn
11	This is a math question. Rank the products of the following three pairs of numbers from smallest to largest: (a) 1,025 x 975; (b) 1,050 x 950; (c) 1,000 x 1,000.	b (1,050 x 950), a (1,025 x 975), c (1,000 x 1,000)
12	What organization established by FDR was the first example of regional planning by the federal government which focused on managing the flow of the Tennessee River?	Tennessee Valley Authority; TVA
13	What are the lines, which are also called meridians, that are used to estimate distance east or west of the Prime Meridian?	longitude; longitudinal
14	Dirty rice, king cake, pralines, sauce piquante, and jambalaya. With what American city are these foods especially associated?	New Orleans
15	If the voltage in a circuit is doubled, how does the power change?	it is quadrupled

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<u>Q #</u>	<u>Question</u>	<u>Answer</u>
1-A	During the early Middle Ages, what group of educated church men hand copied and painted the majority of books?	Monks
1-B	Mutualism and commensalism are two of the three main categories of symbiosis. What is the other one?	parasitism
2-A	In 1998, Scott Ridder resigned his United Nations position. He was frustrated because the U.S. talked tough while Madeleine Albright secretly pressured his inspection team to back off from intrusive checks in what country?	Iraq
2-B	Verbs such as "blush" and "slouch" do not require a complement to complete their meaning. What is the name for such verbs?	intransitive
3-A	This is a computer question. In an array, what word denotes the number of terms that go into each member of an array?	dimension
3-B	Home to alpacas and llamas, what mountain range extends along the western coast of South America?	the Andes
4-A	Who is the Greek philosopher who is often credited with first using the term "atom?"	Democritus
4-B	What is the term for the special advantage or right invoked by President Clinton's lawyers, mostly unsuccessfully, to shield top advisers from answering some grand jury questions?	executive privilege
5-A	For what work was the setting 263 Princengracht, Amsterdam, during the Second World War?	The Diary of Anne Frank
5-B	Edgar A. Guest started and ended one of his poems with this line: " It takes a heap o' living in a house t' make it home." What is the name of this 1916 poem?	Home
6-A	During the 1700's, what intellectual movement focused on the secular rather than spiritual world and believed in rationalism?	The Enlightenment; The Age of Reason
6-B	Electricity generated by moving water and is utilized by many industries such as those along the Great Lakes is known as what?	hydroelectric power
7-A	This is a math question. During a recent illness, Shaun's weight decreased by 8%. In the month following his illness, his weight increased by 8%. How does his current weight compare with his weight just before he became ill?	weighs less; weighs 99.4% as much
7-B	The fusion inside the sun involves what elements?	hydrogen and helium
8-A	There are two interjections in the poem "Jabberwocky." Name either of them.	EITHER: Callooh or Callay
8-B	This is a math question. What is the ratio of the short leg to the hypotenuse in a 30-60-90 right triangle?	1 to 2; 1/2
9-A	In SI units, what is the potential energy of a spring compressed one meter with a spring constant of two Newtons per meter?	one joule
9-B	An awkward state of affairs or a mess is known as a "fine kettle of what"?	fish
10-A	In the 18th century this dance became the standard third movement of symphonies until supplanted by the scherzo. What is this dance in triple time, whose name is an anagram of a common unit of time?	minuet; minuetto
10-B	This is a computer question. What operating system is used by most host computers on the internet?	UNIX

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Q #	Question	Answer
1	This is a math question. Give an equation for a line through point (2, -1) [2, comma, negative 1] with a slope of 3.	$y = 3x - 7$ or any equivalent (e.g., $3x - y = 7$)
2	What is the world's largest trading block in which members not only work as an economic block but also cooperate politically?	European Union
3	What are two main health problems that could result from prolonged high blood pressure?	strokes & coronary artery disease; strokes & heart attacks
4	What is the enzyme that lengthens bits of DNA called telomeres, enabling cells to divide indefinitely?	telomerase
5	Lopakhin [loe-pah-KEEN] wants this orchard destroyed so he can build houses on the section of the estate on which it now stands. Like the rest of the estate, it has declined out of neglect and poor management. What is the titular orchard which begins to fall at the close of an Anton Chekhov play?	The Cherry Orchard
6	This is a math question. Crickets chirp 4 times per minute at 41 degrees, 8 times at 42 degrees and 12 times at 43 degrees. If this linear relationship continues for higher temperatures, how many times per minute does a cricket chirp when it is 81 degrees?	164
7	What group, inspired by Osman in the late 1200s, built a diverse empire consisting of Catholics, Orthodox Christians, Jews, and Muslims and maintained a large, centralized government?	The Ottomans; Osmanlis
8	As gastrin secretion increases, how is the pH in the stomach affected?	pH increases; more acidic
9	This is a computer question. In BASIC, the three-letter command "D-I-M" creates one of these. In Pascal or C++ you can simply allocate the memory and set up pointers, in as many dimensions as necessary, between the indexed items. What word describes this matrix of numbers used in a computer program?	array
10	In what novel does America accidentally bomb the Soviet Union, forcing the agonized U.S. president to destroy New York in order to avert all-out nuclear war?	Fail-Safe
11	The most celebrated of these objects are probably the imperial ones commissioned by Alexander III in 1884 from the workshop of the Russian jeweler, Peter Carl Fabergé [fab-er-ZHAY]. More mundane ones are artworks as well, often dyed or otherwise decorated by children. What are these holiday objects?	Easter eggs
12	They combine with infinitives and participles to convey information about tense, mood, person, and number. In English they include the modal verbs like "may," "might," and "should." What is this type of helping element that adds to the basic meaning of a verb or verbal?	auxiliary
13	What element is used by archeologists to help date the remains of living things?	Carbon/Carbon 14
14	The first one was found in Dussenheim, Germany; two were found in Montana and Arizona, and the remaining two were unwrapped in Britain, after one in Paraguay was exposed as a forgery. What are these gilded certificates that permitted access to the candy factory of an eccentric recluse, Willy Wonka?	golden tickets
15	Viewing the first set of transition metals which begins with scandium, what specific set of atomic orbitals is being filled?	3d

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QUESTION-AND-ANSWER SET
DISTRICT TOURNAMENT
ROUND 1

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