

### Round 8 1st Section Toss-up Questions

#### **Question #1: Science**

10 points

Edwin Krebs, who is not related to Hans Krebs, shared a Nobel Prize for describing how these enzymes add mass and negative charge to proteins.

This class of enzymes adds a particular ion to serine [SAIR-een], threonine [THREE-uh-neen], tyrosine [TY-ruh-seen], or histidine [HISS-tuh-deen] amino acids. The mitogen-activated protein type of these enzymes has variants whose names repeat the name of these enzymes several times. Two of these enzymes that work on tyrosine were originally named "just another" but are now named "Janus".

The work of these enzymes is reversed by phosphatase ["phosphate-ace"]. Name these enzymes that move phosphate groups.

#### **Question #2: Mathematics**

10 points

A formula with a triangle side length in the numerator and this function in the denominator is used to find twice the circumradius. Another formula multiplies the complex modulus times this function to find the imaginary component of a complex number. This function equals the infinite polynomial that begins x, minus x cubed over 3 factorial, plus x to the fifth over 5 factorial, et cetera. The reciprocal of this function is the cosecant function. On the unit circle, this operation gives the y-coordinate. Name this operation equal to opposite-side length divided by hypotenuse length in a right triangle.

 $\underline{\sin}$ e [do not accept "cosine"; accept answers that additionally mention a variable, such as  $\underline{\sin}$ e xor  $\underline{\sin}$ e theta]



#### Round 8 1st Section Toss-up Questions

#### **Question #3: Social Studies**

10 points

The southeast part of this state has a dry lake bed	<u>Oregon</u>
called Alvord Desert, near Steens Mountain. This	
state also has several large national forests,	
including Deschutes [duh-SHOOTS], Malheur	
[mal-"HEAR"], and one named for this state's	
tallest mountain, Mount Hood. There was a	
controversy over protections for the northern	
spotted owl in this state's Willamette [wih-LAM-it]	
National Forest. This state's two biggest college	
towns are Corvallis and Eugene. Like Maine, this	
state's most populous city is named Portland.	
Name this state between Washington and	
California whose capital is Salem.	

#### **Question #4: Literature**

This type of clause can often be classified as future	<b>conditional</b> clause
real, present unreal, or past unreal. According to	[prompt on <b>if then</b> clause]
the Oxford English Dictionary, the word "agreeable"	
is used primarily in this type of clause. On a	
traditional flow-chart, a step equivalent to this type	
of clause is represented by a diamond. This type of	
clause can begin with the four-word phrase "were it	
not for", the three-word phrase "as long as", the	
two-word phrase "in case", or the one word "unless".	
The latter part of this type of clause sometimes	
begins with the word "else". Name this type of	
clause characterized by an "if-then" statement.	



#### Round 8 1st Section Toss-up Questions

#### **Question #5: Miscellaneous**

10 points

The cover art for a remix of this song shows a	"Where Are You Now"
circular arrangement of pictures of the singer and	
DJ so that the singer can be seen at the bottom	
and the DJ can be seen upside down at the top.	
That remix of this song was released in January	
2022 by Kungs. At the end of the video for this	
song, a dancing woman dressed in blue turns into	
the silhouette of a rose. The real name of the DJ	
who recorded this 2021 hit is Felix De Laet. The	
lyrics of this song state "You're just like my favorite	
song going round, round in my head." Name this	
song featuring the singer Calum Scott that is by	
the DJ Lost Frequencies.	

#### **Question #6: Science**

Metal alkyl [AL-kul] complexes often undergo the	elimination reactions [or
beta hydride ["HIDE-ride"] type of this reaction,	eliminations]
which turns them into metal alkene complexes and	
creates a pi bond. One example of this type of	
organic chemical reaction is dehydrogenation	
[DEE-"hi"-DRAH-juh-NAY-shun]. These reactions	
are sometimes called degradations, including the	
types named for Alfred Wohl and August Wilhelm	
von Hofmann. This type of reaction often follows	
an addition reaction, combining to create a	
substitution. Name this class of chemical reactions	
in which atoms are removed from a molecule.	



#### **Question #7: Social Studies**

10 points per part

This	s person was re-elected to the U.S. Senate by	
the	Illinois General Assembly after engaging in	
seve	en debates with Abraham Lincoln in 1858.	
1	Name this Democrat who then finished fourth	Stephen A(rnold) <b>Douglas</b>
	in the 1860 Presidential Election.	
2	During the debate, Lincoln contrasted this 1854	Kansas–Nebraska Act
	law drafted by Douglas with the <i>Dred Scott</i>	
	decision. This law gave two territories the	
	ability to apply for statehood and determine	
	their own slavery policy.	
3	At the debate in this town, Douglas said "No	Freeport, Illinois [accept
	matter what the decision of the Supreme Court	Freeport Doctrine]
	may be on that abstract question, still the right	
	of the people to make a Slave Territory or a	
	Free Territory is perfect and complete under	
	the Nebraska bill."	

#### **Question #8: Social Studies**

This	s person wrote five of the Federalist Papers.	
1	Name this person who was the first Chief	John <u>Jay</u>
	Justice of the United States and who negotiated	
	a major treaty with Great Britain.	
2	Supporters of Jay's Treaty formed this political	Federalist Party [accept
	party. The only U.S. president who belonged to	the <b>Federalist</b> s]
	this party was John Adams.	
3	This case, issued while Jay was Chief Justice of	<u>Chisholm</u> v. Georgia
	the United States, decided that states do not	[either order; prompt on
	have sovereign immunity from citizens of other	<u>Georgia</u> ]
	states.	



#### **Question #9: Science**

10 points per part

Like	e gluons ["GLUE"-ahnz], these particles carry	
colo	r charge.	
1	Name this type of elementary particle whose	<b>quark</b> s
	flavors are up, down, charm, strange, top, and	
	bottom.	
2	These particles have an equal number of quarks	mesons [MEH-zahnz]
	and anti-quarks. They usually have one of each.	
3	List the three color charges.	red, green, and blue [any
		order]

#### **Question #10: Science**

The	ese particles were observed in the Rossi–Hall	
exp	eriment in 1940 and the Frisch–Smith	
exp	eriment in 1962, which were tests of relativistic	
tim	e dilation.	
1	Name these particles that have a mean lifetime	$\underline{\mathbf{muon}}\mathbf{s}$ [MYOO-ahnz]
	of 2.2 microseconds.	
2	Muons are 207 times more massive than these	<u>electron</u> s
	particles but otherwise very similar to them.	
	J. J. Thomson is credited with discovering these	
	negatively charged particles by showing that	
	cathode rays consist of them.	
3	Muons, electrons, taus, and their neutrinos are	leptons
	all classified as this type of particle.	



#### **Question #11: Mathematics**

10 points per part

This	s adjective describes the part of a surface area	
equa	al to the total surface area minus the area of	
the	base or bases.	
1	Give this adjective that describes the part of a	lateral [accept lateral
	cone's surface other than the circular base.	surface area]
2	Find the lateral surface area of a cone if the	15 pi square units [do not
	radius is 3 units and the height is 4 units.	prompt on partial answers]
3	Find the lateral surface area of a cylinder if the	<b>24 pi</b> square units [do not
	radius is 3 units and the height is 4 units.	prompt on partial answers]

#### **Question #12: Mathematics**

In a	triangle, these segments intersect at the	
cent	roid.	
1	Name these segments that connect a vertex of a	<u>median</u> s
	triangle to the midpoint of the opposite side.	
2	An isosceles ["eye"-SAH-suh-leez] triangle has	<u>8</u> units
	side lengths of 12 units, 10 units, and 10 units.	
	Find the length of the median to the base of	
	the triangle.	
3	A right triangle has side lengths of 10 units,	<b>13</b> units
	24 units, and 26 units. Find the length of the	
	median to the hypotenuse of the triangle.	



#### **Question #13: Literature**

10 points per part

In t	his novel, Jake Blount says "The don't-knows	
have	e lived with that lie so long they just can't see	
it."		
1	Name this novel in which Jake Blount hangs	The <b>Heart Is a Lonely</b>
	out at the New York Café and has many	$\underline{Hunter}$
	conversations with John Singer.	
2	This author wrote The Heart Is a Lonely	Carson McCullers
	Hunter and The Member of the Wedding.	
3	In the middle of writing The Member of the	The Ballad of the Sad
	Wedding, McCullers wrote this novella about	$\underline{\mathit{Cafe}}$
	Amelia Evans taking in the hunchbacked man	
	Cousin Lymon.	

#### **Question #14: Literature**

This	s object was supposedly built by the Knights	
of N	Ialta for Emperor Charles V.	
1	Name this object sought by Brigid	Maltese <u>Falcon</u>
	O'Shaughnessy, Joel Cairo, and Casper	
	Gutman.	
2	The Maltese Falcon was also sought by Sam	(Samuel) Dashiell
	Spade in a novel by this author.	$\underline{\mathbf{Hammett}}$
3	Dashiell Hammett also wrote this novel about	The <b>Thin Man</b>
	Nick and Nora Charles.	



#### Round 8 3rd Section Toss-up Questions

#### **Question #15: Literature**

10 points

This person was inspired by people continuing to	Noël (Pierce) <u>Coward</u>
work during the Blitz to write the song "London	
Pride", and he wrote the music and lyrics for the	
operetta Bitter Sweet. A play by this writer begins	
with Edith carrying in a large tray and being told	
to fetch the ice bucket. In that play, this writer	
uses the song "Always" to invoke the ghost of	
Elvira after she has been dead for seven years, but	
the ghost mistakenly causes the death of Ruth.	
Both of those women are invoked by Madame	
Arcati and were married to Charles Condomine.	
Name this 20th-century English playwright and	
humorist who wrote Blithe Spirit.	

#### **Question #16: Social Studies**

Like Cuthbert and Oswold, there is a shrine to this	The Venerable <b>Bede</b> or St.
person at Durham Cathedral. This person praised	Beded [or Baeda or
Pope Gregory I in a letter he wrote to Egbert of	<b>Bede</b> the Venerable]
York, who claimed to be this person's student and	
who in turn taught Alcuin [al-kwun]. This person's	
text On the Reckoning of Time was largely	
concerned with calculating the date of Easter. This	
person played a major role in popularizing the	
numbering of years from the supposed birth of	
Jesus. Name this 7th- and 8th-century writer who	
described the conversion of Anglo-Saxons to	
Christianity in the <i>Ecclesiastical History of the</i>	
English People.	



#### Round 8 3rd Section Toss-up Questions

#### **Question #17: Science**

10 points

Acetylcholine [uh-SEE-tul-KOH-leen] receptors are	$\underline{\mathbf{nicotine}}$
classified based on whether they accept muscarine	
[MUSS-kuh-reen] or this chemical. This liquid	
alkaloid has pyridine [PIR-uh-deen] and pyrrolidine	
[puh-RAW-lih-deen], and its molecular formula is	
$C_{10} H_{14} N_2$ ["C ten H fourteen N two"]. This	
chemical is now often taken into the body along	
with propylene glycol or glycerin. People dependent	
on this chemical can use lozenges, chewing gums, or	
skin patches to help quit. Because of the way it is	
taken in, dependence on this chemical often leads	
to lung cancer. Name this addictive chemical in	
e-cigarettes and tobacco products.	

#### **Question #18: Fine Arts**

One pair of paintings by this artist is based on a	Titian [TEE-shun] [or
story from Ovid's [AH-vid'z] Metamorphoses, with	Tiziano <u>Vecelli</u> or Tiziano
the first painting showing a hunter finding some	<u>Vecellio</u> ]
bathing goddesses and the second showing him in	
the form of a stag being attacked by wolves. The	
first of those paintings is Diana and Actaeon	
[ak-TEE-un]. Another painting by this artist shows	
a woman dressed primarily in white on the left and	
Cupid in the middle reaching down into some water.	
Yet another painting by this artist is similar to a	
painting showing a nude woman in bed that this	
artist worked on with Giorgione [jor-JOH-nay].	
Name this Venetian painter of Sacred and Profane	
Love and Venus of Urbino.	



### Round 8 3rd Section Toss-up Questions

#### **Question #19: Social Studies**

10 points

This person was the early frontrunner in the 1992	Geraldine (Anne) Ferraro
and 1998 New York Senate Democratic primaries	
but lost to Robert Abrams and Chuck Schumer.	
This candidate was criticized because of charges	
against her husband John Zaccaro, who was a real	
estate developer eventually found innocent of	
bribing the Queens Borough President. This person	
told George H. W. Bush, "I almost resent, Vice	
President Bush, your patronizing attitude that you	
have to teach me about foreign policy" during a	
1984 debate. Name this congressperson who was	
the 1984 Democratic vice-presidential running mate	
of Walter Mondale.	

#### **Question #20: Literature**

10 points

In one play by this writer, one of the characters is referred to as "The Dead Man" in Act I but is referred to as "The Warrior" in Act II, which is set eight centuries earlier. That play was viewed as a political statement by this writer because the Forest Head learns that humans repeat past mistakes. In another play by this writer, Simon Pilkings prevents the ritual suicide of Elesin following the death of the king, as called for in Yoruba [YOR-uh-buh] traditions. Name this playwright of A Dance of the Forests and Death and the King's Horseman who was from Nigeria.

(Akinwande Oluwole Babatunde) "Wole" **Soyinka** [WAW-leh **shoh-YEEN-kah**]



#### **Question #21: Fine Arts**

10 points per part

The	e final section of this composition uses a female	
choi	rus that has a wordless part. The conductor	
said	that a door between the orchestra and chorus	
shou	ald be closed at the end of this piece.	
1	Name this work with seven sections that	The $\underline{Planets}$
	premiered in 1918.	
2	This composer wrote <i>The Planets</i> .	Gustav(us Theodore von)
		$\underline{\mathrm{Holst}}$
3	A theme from Jupiter in The Planets was	"I Vow to Thee, My
	adapted to make the tune "Thaxted" and was	$\underline{\mathbf{Country}}$ "
	adapted again by Holst to make this British	
	patriotic hymn.	

#### **Question #22: Fine Arts**

This	s symphony repeatedly has six staccato eighth	
note	es followed by a quarter note.	
1	Give the common nickname of this symphony, which comes from a sudden fortissimo chord near the beginning of the second movement.	"Surprise" Symphony [prompt on Symphony No. 94; accept answers that also include, but do not otherwise reveal,
		(Franz) Joseph Haydn]
2	This composer wrote the "Surprise" Symphony	(Franz) Joseph <u><b>Haydn</b></u>
	as well as the "Farewell" and "Palindrome"	
	symphonies.	
3	Haydn wrote over 100 pieces involving this	baryton
	instrument. It has six or seven strings that can	
	be bowed and additional strings that can be	
	plucked by the left hand.	



#### **Question #23: Literature**

10 points per part

This	s fictional king says "Nothing can come of	
noth	ning."	
1	Name this father of Goneril, Regan, and	King <u>Lear</u>
	Cordelia.	
2	What royal title is held by Cordelia's eventual	King of France [prompt
	husband?	on <b>king</b> ]
3	The King of France agrees to marry Cordelia	Duke of <b>Burgundy</b>
	after the Duke of which place states "I am sorry	
	then you have so lost a father that you must	
	lose a husband"?	

#### **Question #24: Literature**

Thi	s novel states "Brahms, for all his grumbling	
and	grizzling, had never guessed what it felt like	
to b	be suspected of stealing an umbrella."	
1	Name this novel in which Helen Schlegel	Howards End
	[SHLAY-gul] calls the umbrella "appalling",	
	which embarrasses Leonard Bast.	
2	This author wrote <i>Howards End</i> , A Room with	E(dward) M(organ)
	a View, and A Passage to India.	Forster
3	The Howards End estate eventually gets passed	the <b>Wilcox</b> family or the
	to the Schlegel family after belonging to this	<u>Wilcox</u> es
	family that includes Henry, Charles, and Paul.	



#### **Question #25: Social Studies**

10 points per part

The	founder of this religion declared "There is no	
Hine	du, there is no Muslim."	
1	Name this religion based on the teachings of	<u>Sikh</u> ism
	Guru Nanak.	
2	This central Sikh text is treated like a person,	Guru Granth Sahib
	including being put to bed each night in	[accept Adi Granth;
	temples.	prompt on partial answers]
3	This Sikh holiday that takes place in April	Vaisakhi [accept
	celebrates the new year and the creation of the	Baisakhi]
	Khalsa warrior order.	

#### **Question #26: Social Studies**

Nan	ne these Catholic holidays:	
1	This day is the first day of Lent. Its name	Ash Wednesday
	reflects the mark that many people make on	
	their foreheads.	
2	This holiday is sometimes called Three Kings'	Epiphany [accept
	Day or Little Christmas, and it is often	$\overline{\text{Theophany}}$
	celebrated on January 6.	
3	This holiday is the day after All Saints' Day. It	All Souls' Day
	is sometimes called the Commemoration of All	
	the Faithful Departed or the Day of the Dead,	
	and it is supposed to help people in purgatory.	



#### **Question #27: Science**

10 points per part

The	se molecules are classified as homonuclear	
[HC	H-moh-NOO-klee-ur] or heteronuclear.	
1	Give this term for molecules that consist of two	diatomic ["die-atomic"]
	atoms. Many elemental gases, but not noble	molecules
	gases, commonly occur as this type of molecule.	
2	This halogen is a liquid at room temperature,	bromine [accept Br]
	but with a little bit of heat, it becomes a	
	diatomic gas.	
3	This element, similar to tungsten, sometimes	molybdenum [prompt on
	forms diatomic molecules with sextuple bonds.	Mo
	This element is used to harden steel and is a	
	catalyst in nitrogen fixation.	

#### **Question #28: Science**

This	s type of bond is sometimes called an	
elec	trovalent ["ELECT-row"-VAY-lint] bond.	
1	Name this type of bond characterized by large	ionic bonds
	differences in electronegativities.	
2	This one-word term is used for the atom that,	cation(s) ["CAT-ion"]
	in an ionic bond, loses an electron to become	
	positively charged.	
3	The defect in an ionic crystal consisting of both	Yakov (Ilyich) <b>Frenkel</b>
	a missing cation and an extra nearby cation is	
	named for this scientist. This scientist and his	
	assistant Tatiana Kontorova modeled crystal	
	lattices near a dislocation.	



#### Round 8 5th Section Toss-up Questions

#### **Question #29: Literature**

10 points

In this author's first novel, a bird is able to quote	David Foster <u>Wallace</u>
W. H. Auden and the King James Bible. That bird	
belongs to Lenore Stonecipher Beadsman of Shaker	
Heights, Ohio in this author's The Broom of the	
System. Another novel by this author begins with	
the narrator being interviewed at the University of	
Arizona, and much of that novel is set at the	
Enfield Tennis Academy. This author set most of	
that novel during the Year of the Depend Adult	
Undergarment. This author titled that novel based	
on a phrase that Hamlet said about Yorick. Name	
this American author of <i>Infinite Jest</i> .	

#### **Question #30: Social Studies**

	- 1
While serving as U.S. Secretary of State, this	Charles Evans <u><b>Hughes</b></u>
person negotiated a series of treaties—including the	
Washington Naval Treaty—that prevented an arms	
race with Great Britain, France, Italy, and Japan.	
While serving as Chief Justice, this person wrote	
the NLRB v. Jones & Laughlin Steel decision that	
upheld the Wagner Act, and he also wrote the	
Schechter Poultry v. U.S. decision that struck down	
the National Industrial Recovery Act. This person	
was the Chief Justice when President Franklin	
Roosevelt proposed his court-packing plan. Name	
this successor to Taft as Chief Justice, who earlier	
narrowly lost the presidency to Woodrow Wilson in	
the election of 1916.	



#### Round 8 5th Section Toss-up Questions

#### **Question #31: Mathematics**

10 points

The type of this thing named for E. A. Dinic is a	greedy <b>algorithm</b> s
slightly more sophisticated example than the one	
named for Jack Edmonds and Richard Karp, both	
of which are used to find maximum flow. If the goal	
is to find a minimum spanning tree, then the two	
most useful examples of these things are named for	
Joseph Kruskal and Robert Prim. One of these	
things that finds the shortest distance between two	
vertices is named for Edsger Dijkstra	
["DIKE"-struh]. Those examples are all greedy	
examples of these things. These procedures can be	
expressed in pseudocode or flowcharts. Name these	
formal methods that are followed to solve a	
problem.	

#### **Question #32: Science**

Some relations named for this scientist set partial	James Clerk <u>Maxwell</u>
derivatives of temperature or entropy equal to	
partial derivatives of pressure or volume and to	
second derivatives of potentials. When quantum	
effects are negligible, the statistics named for this	
scientist and an Austrian scientist describe the	
energy distribution of particles. A thought	
experiment with a door between two gas containers	
is named for this scientist's "demon". Name this	
scientist who combined Ampére's law with	
Faraday's law and two of Gauss's laws to give a	
four-equation summary of electromagnetism.	



# Round 8 Extra Section Toss-up Questions

#### **Extra Question #1: Fine Arts**

10 points

One set of variations by this composer is based on			
rising quarter notes followed by falling dotted			
eighth, sixteenth, and quarter notes. Those			
variations are based on Frédéric Chopin's			
[shoh-pan'z] Prelude in C minor. This composer			
used a theme that was not actually written by			
Arcangelo Corelli in his Variations on a Theme of			
Corelli. This composer's works generally focused on			
the piano, including a set of 24 variations based on			
the 24th and final part of a set of difficult violin			
pieces. Name this Russian-born pianist and			
conductor who used the 24 Caprices for Solo Violin			
for his Rhapsody on a Theme of Paganini.			

### Sergei (Vasilyevich) Rachmaninoff

#### **Extra Question #2: Literature**

In one novel by this author, the protagonist goes to	Laurence <u>Sterne</u>
Calais [kuh-lay] and meets two people who "would	
be so far from being happy" even if they were given	
the "happiest mansion in heaven". Those people,	
Mundungus and Smelfungus, are in this author's	
novel narrated by Reverend Mr. Yorick. In another	
work by this author, there are many speeches by	
Corporal Trim, who is friends with Uncle Toby.	
The narrator of that very long novel criticizes his	
mother for asking about winding clocks while he	
was being conceived. Name this 18th-century	
Anglo–Irish novelist who wrote A Sentimental	
Journey Through France and Italy and Tristram	
Shandy.	



### Round 8 Extra Section Toss-up Questions

#### **Extra Question #3: Social Studies**

10 points

This cabinet-level department oversees the Fostering Access, Rights, and Equity grant program through the United States Women's Bureau. This department's bureau of statistics publishes the Consumer Price Index and unemployment rate. Several laws that protect whistleblowers are overseen by this department's Occupational Safety and Health Administration. This department is headquartered in the Frances Perkins Building. Name this department that has a Benefits Review Board and an Employee Benefits Security Administration, and which is responsible for overseeing regulations regarding jobs.

United States Department of **Labor** [accept **Labor** Department; prompt on **DoL**]

#### **Extra Question #4: Mathematics**

10 points

This word followed by the word "equation" forms a synonym of "recurrence relation". This word followed by the word "quotient" means an expression for the average rate of change of a function, and a limit of such an expression is used to define derivatives. The word "divided" followed by this word means an algorithm used to compute logarithms and trigonometric functions, which is why this word followed by "engine" refers to a machine to evaluate polynomials that was invented by Charles Babbage. As a noun, this word is synonymous with "residual" and "deviation". Give this word that means the answer of a subtraction problem.

difference(s) [acceptdifference equation ordifference quotient ordivided differencesalgorithm or differenceengine]



# Round 8 Extra Section Toss-up Questions

#### **Extra Question #5: Science**

In the 1930s, this man's son John designed a wedge	(Frederick) William
that makes it easier to observe the Sun; a few years	<u>Herschel</u>
later, John invented blueprints. This person worked	
closely with his younger sister, who discovered at	
least five comets and improved on the works by	
Flamsteed and Messier [mes-see-ay] by writing a	
catalogue of nebulas. This person discovered the	
moons Titania [tih-TAH-nee-uh] and Oberon	
[OH-buh-rahn], and he also discovered infrared	
radiation. This person gained fame when he	
became the first person since ancient times to	
discover a new planet. Name this German-born	
British astronomer who discovered Uranus.	



#### **Extra Question #6: Mathematics**

10 points per part

The	graphs of these functions have the same shape	
as t	he graph of the hyperbolic tangent function.	
1	Name this class of functions generated by a	logistic functions [accept
	constant divided by the quantity 1 plus $e$ raised	<u>logistic</u> curves]
	to the negative $k x$ power.	
2	In population modeling, the upper limit of a	carrying capacity
	logistics function represents this concept.	[prompt on maximum
		population]
3	Give the carrying capacity of the function 10	10
	divided by the quantity 1 plus $e$ to the	
	negative $3 x$ power.	

#### **Extra Question #7: Mathematics**

This name is given to a line that intersects two		
other lines.		
1	Name this type of line. When it intersects	transversal line [accept
	parallel lines, congruent alternate interior	$ \underline{\mathbf{transversal}}\mathbf{s} $
	angles are formed.	
2	A transversal segment plays a central role in	five postulates [accept
	Euclid's parallel postulate, which was his last	<u>fifth</u> postulate]
	one. How many postulates did Euclid use?	
3	If a transversal goes through two parallel lines,	127 degrees
	and one of the interior angles measures 53	
	degrees, then what is the measure of the	
	consecutive interior angle across from it?	



#### **Extra Question #8: Literature**

10 points per part

In t	his novel, King Henry VIII [8] tries to have the	
Duke of Norfolk executed, but he cannot do so		
because he cannot find the Great Seal of England.		
1	Name this novel about Henry's son Edward	The <b>Prince and the</b>
	Tudor and Tom Canty.	Pauper
2	The Prince and the Pauper was written by this	Mark <u>Twain</u> [or Samuel
	author of The Adventures of Tom Sawyer.	(Langhorne) <u>Clemens</u> ]
3	Twain also wrote about switched identities in	Pudd'nhead Wilson
	this novel in which Tom Driscoll and Chambers	
	are switched in their cribs. The title character	
	of this novel collects fingerprints.	

#### **Extra Question #9: Literature**

The	wife of this play's protagonist says "He's not	
the finest character that ever lived. But he's a		
human being, and a terrible thing is happening to		
him	. So attention must be paid."	
1	Name this play in which Linda Loman is	Death of a Salesman
	married to Willy Loman, who is frustrated with	
	his sons Biff and Happy.	
2	This playwright wrote <i>Death of a Salesman</i> and	Arhur (Asher) Miller
	The Crucible.	
3	In <i>The Crucible</i> , this reverend—who is the	Samuel Parris [accept
	father of Betty and uncle of Abigail	either]
	Williams—supports the investigations by	-
	Reverend Hale.	