



SAMPLE QUESTIONS A

ROUND 1: MULTIPLE CHOICE

HISTORY: AMENDMENTS

1. WHICH CONSTITUTIONAL AMENDMENT GIVES PEOPLE THE “RIGHT OF PETITION”?

- A. 1ST
- B. 2ND
- C. 3RD

ANSWER: A. 1ST AMENDMENT

2. WHICH CONSTITUTIONAL AMENDMENT GIVES WOMEN THE RIGHT TO VOTE?

- A. 18TH
- B. 19TH
- C. 20TH

ANSWER: B. 19TH AMENDMENT

3. WHICH AMENDMENT LIMITED THE PRESIDENT TO TWO TERMS?

- A. 21ST
- B. 22ND
- C. 23RD

ANSWER: B. 22ND AMENDMENT

HISTORY: THE MIDEAST

1. WHICH NATION ORIGINALLY UNDERTOOK CONSTRUCTION OF THE SUEZ CANAL IN 1859?

- A. THE OTTOMAN EMPIRE
- B. GREAT BRITAIN
- C. FRANCE

ANSWER: C. FRANCE

2. WHICH MIDEAST COUNTRY EXPORTS MORE OIL THAN ANY OTHER NATION?

- A. SAUDI ARABIA
- B. KUWAIT
- C. EGYPT

ANSWER: A. SAUDI ARABIA

3. WHAT COUNTRY SEPARATES ISRAEL AND SAUDI ARABIA?

- A. SYRIA
- B. JORDAN
- C. LEBANON

ANSWER: B. JORDAN



SAMPLE QUESTIONS A

HISTORY: FIRSTS IN HISTORY

1. WHAT WAS THE FIRST COLLEGE IN THE UNITED STATES?

- A. PRINCETON
- B. YALE
- C. HARVARD

ANSWER: C. HARVARD

2. THE TERM "SWEATSHOP" WAS FIRST USED IN CONNECTION WITH WHAT INDUSTRY?

- A. MINING
- B. STEEL WORKING
- C. GARMENT MAKING

ANSWER: C. GARMENT MAKING

3. IN 1619, THE FIRST REPRESENTATIVE ASSEMBLY IN NORTH AMERICA WAS ESTABLISHED IN WHICH COLONY?

- A. CONNECTICUT
- B. VIRGINIA
- C. VERMONT

ANSWER: B. VIRGINIA

HISTORY: ISLANDS OF THE WORLD

1. WHAT IS THE LARGEST ISLAND IN AREA IN THE CARIBBEAN?

- A. PUERTO RICO
- B. CUBA
- C. HISPANIOLA

ANSWER: B. CUBA

2. THE LARGEST ISLAND IN THE WORLD HAPPENS TO BE A SELF-GOVERNING PROVINCE OF WHICH EUROPEAN COUNTRY?

- A. SWEDEN
- B. NORWAY
- C. DENMARK

ANSWER: C. DENMARK

3. WHAT IS THE LARGEST ISLAND IN AREA OF THE 48 CONTIGUOUS U.S. STATES?

- A. LONG ISLAND, NY
- B. WHIDBEY ISLAND, WA
- C. ISLE ROYALE, MI

ANSWER: A. LONG ISLAND, NY



SAMPLE QUESTIONS A

ARTS & LITERATURE: POETRY

1. FINISH THE QUOTATION: "BUT I HAVE PROMISES TO KEEP, AND MILES TO GO BEFORE I ---."

- A. WEEP
- B. LEAP
- C. SLEEP

ANSWER: C. SLEEP

2. FINISH THE QUOTATION: "RAGE, RAGE AGAINST THE DYING OF THE -----."

- A. EMBERS
- B. LIGHT
- C. SIGHT

ANSWER: B. LIGHT

3. FINISH THE QUOTATION: "I SHALL BUT LOVE THEE BETTER AFTER -----."

- A. DEATH
- B. KNOWING THEE
- C. WE'RE MARRIED

ANSWER: A. DEATH

ARTS & LITERATURE: RENAISSANCE ART

1. THE MARBLE STATUE DAVID IS THE WORK OF WHICH ARTIST?

- A. LEONARDO
- B. RAPHAEL
- C. MICHELANGELO

ANSWER: C. MICHELANGELO

2. MADONNA OF THE ROCKS IS THE WORK OF WHICH ARTIST?

- A. LEONARDO
- B. DONATELLO
- C. RAPHAEL

ANSWER: A. LEONARDO

3. THE SCHOOL OF ATHENS IS THE WORK OF WHICH ARTIST?

- A. LEONARDO
- B. DONATELLO
- C. RAPHAEL

ANSWER: C. RAPHAEL



SAMPLE QUESTIONS A

ARTS & LITERATURE: LITERARY DEVICES

1. THE REPETITION OF A CONSONANT SOUND, USUALLY IN CONSECUTIVE WORDS.

- A. ALLEGORY
- B. HYPERBOLE
- C. ALLITERATION

ANSWER: C. ALLITERATION

2. A WORD THAT DESCRIBES A SOUND OR ACTUALLY SOUNDS LIKE THE SOUND IT DESCRIBES.

- A. PARALLELISM
- B. ONOMATOPOEIA
- C. PERSONIFICATION

ANSWER: B. ONOMATOPOEIA

3. THE USE OF OBJECTS OR IMAGES TO REPRESENT ABSTRACT IDEAS.

- A. SYMBOLISM
- B. IRONY
- C. CONFLICT

ANSWER: A. SYMBOLISM

ARTS & LITERATURE: MUSICAL INSTRUMENTS

1. THE "MIDDLE VOICE" OF THE VIOLIN FAMILY, MUSIC FOR THIS STRING INSTRUMENT IS PRIMARILY WRITTEN IN THE ALTO CLEF.

- A. CELLO
- B. BASS
- C. VIOLA

ANSWER: C. VIOLA

2. WHICH BRASS INSTRUMENT ALLOWS A PLAYER TO LOWER THE PITCH BY EXTENDING THE LENGTH OF THE AIR COLUMN?

- A. TRUMPET
- B. TUBA
- C. TROMBONE

ANSWER: C. TROMBONE

3. WHICH OF THESE INSTRUMENTS CONTAINS THE MOST STRINGS?

- A. GUITAR
- B. DOUBLE BASS
- C. PIANO

ANSWER: C. PIANO



SAMPLE QUESTIONS A

SCIENCE: BIOLOGY

1. A MAN WITH A PELVIC INJURY HAS HURT HIS...

- A. HIP
- B. NECK
- C. SKULL

ANSWER: A. HIP

2. VILLI ARE ABUNDANT ON THE LINING OF THE...

- A. LUNG
- B. AORTA
- C. JEJUNUM

ANSWER: C. JEJUNUM

3. "VARICOSE" IS ASSOCIATED WITH...

- A. BONES
- B. VEINS
- C. THE SPINE

ANSWER: B. VEINS

SCIENCE: INVERTEBRATES

1. WHICH IS NOT A GASTROPOD?

- A. SLUG
- B. SNAIL
- C. URCHIN

ANSWER: C. URCHIN

2. TAPEWORMS INHABIT THE...

- A. ESOPHAGUS
- B. AUDITORY CANAL
- C. GASTROINTESTINAL TRACT

ANSWER: C. GASTROINTESTINAL TRACT

3. ECHINODERMS LACK...

- A. A SKELETON
- B. RADIAL SYMMETRY
- C. AN EXCRETORY SYSTEM

ANSWER: C. AN EXCRETORY SYSTEM



SAMPLE QUESTIONS A

SCIENCE: METALS

1. ALKALI METALS DO NOT INCLUDE...

- A. LITHIUM
- B. CESIUM
- C. URANIUM

ANSWER: C. URANIUM

2. QUICKSILVER IS...

- A. TIN
- B. LEAD
- C. MERCURY

ANSWER: C. MERCURY

3. WHICH IS USED FOR RADIATION SHIELDS IN X-RAY FACILITIES?

- A. ZINC
- B. LEAD
- C. STEEL

ANSWER: B. LEAD

SCIENCE: ASTRONOMY

1. TITAN IS A SATELLITE OF...

- A. MARS
- B. URANUS
- C. SATURN

ANSWER: C. SATURN

2. THE MAIN FACTOR THAT DETERMINES THE LIFE SPAN OF A STAR IS...

- A. ITS MASS
- B. ITS PROXIMITY TO OTHER STARS
- C. HOW MUCH CARBON IT CONTAINS

ANSWER: A. ITS MASS

3. THE RADIUS OF THE SUN IS HOW MANY TIMES THAT OF THE EARTH?

- A. 1.09
- B. 10.9
- C. 109

ANSWER: C. 109



SAMPLE QUESTIONS A

MATH: SINE

1. WHAT IS THE SINE OF 45° ?

- A. $\sqrt{2}$
- B. $\sqrt{2}/2$
- C. $1/2$

ANSWER: B. $\sqrt{2}/2$

2. WHAT ANGLE IN THE FOURTH QUADRANT HAS A SINE OF $-1/2$?

- A. 285°
- B. 300°
- C. 330°

ANSWER: C. 330°

3. WHAT IS THE SINE OF $\pi/2$ RADIANS?

- A. 0
- B. 1
- C. $1/2$

ANSWER: B. 1

MATH: STATISTICS

1. WHAT IS THE GEOMETRIC MEAN OF 2, 32, AND 1?

- A. 4
- B. 8
- C. 16

ANSWER: A. 4

2. THE BOWLING TEAM MEMBERS SCORED 112, 131, 155, AND 189. WHAT IS THE MEDIAN SCORE?

- A. 131
- B. 139
- C. 143

ANSWER: C. 143

3. THE HIGH TEMPERATURES LAST WEEK WERE 34, 32, 38, 37, 34, 36, AND 34. WHAT IS THE MODE OF THE DATA?

- A. 32
- B. 34
- C. 35

ANSWER: B. 34



SAMPLE QUESTIONS A

MATH: QUADRANTS

1. THE GRAPH OF THE LINE $2X - 4Y - 4 = 0$ DOES NOT GO THROUGH WHICH QUADRANT?

- A. I
- B. II
- C. III

ANSWER: B. II

2. IN WHICH QUADRANT IS THE TERMINAL SIDE OF THE ANGLE $13\pi/3$?

- A. I
- B. II
- C. III

ANSWER: A. I

3. ANGLE A HAS A POSITIVE TANGENT AND A NEGATIVE COSINE. IN WHICH QUADRANT IS ANGLE A?

- A. I
- B. II
- C. III

ANSWER: C. III

MATH: DISTANCE

1. ABOUT HOW MANY MILES ARE IN 110 KILOMETERS?

- A. 42
- B. 51
- C. 68

ANSWER: C. 68

2. ABOUT HOW MANY METERS ARE IN 168 FEET?

- A. 45
- B. 52
- C. 59

ANSWER: B. 52

3. A BUS TRAVELED FOR 3 HOURS AT AN AVERAGE SPEED OF 55 MILES PER HOUR. ABOUT HOW MANY KILOMETERS DID IT TRAVEL?

- A. 264
- B. 212
- C. 289

ANSWER: A. 264



SAMPLE QUESTIONS A

ROUND 2: LIGHTNING ROUND

LIGHTNING ROUND: SPORTS

**THE FOLLOWING CLUES DESCRIBE DIFFERENT SPORTS.
IDENTIFY THE SPORT.**

1. THE STANLEY CUP IS GIVEN TO THE BEST TEAM IN THIS SPORT.
ANSWER: ICE HOCKEY (OR NHL)
2. THIS SPORT IS KNOWN AS FOOTBALL OUTSIDE OF THE UNITED STATES.
ANSWER: SOCCER
3. THIS CAN BE PLAYED IN TEAMS OF SIX, OR ON THE BEACH IN TEAMS OF TWO.
ANSWER: VOLLEYBALL

LIGHTNING ROUND: CITIES

**THE FOLLOWING CLUES DESCRIBE DIFFERENT INTERNATIONAL CITIES.
NAME THE CITY.**

1. BEHIND SAO PAULO, THIS IS THE SECOND LARGEST CITY IN BRAZIL.
ANSWER: RIO DE JANEIRO
2. THIS IS THE LARGEST CITY IN SOUTH AFRICA, AND ONE OF THE LARGEST IN THE WORLD.
ANSWER: JOHANNESBURG
3. THIS CHINESE CITY IS LARGER THAN BEIJING.
ANSWER: SHANGHAI

LIGHTNING ROUND: LET'S DANCE

**THE FOLLOWING CLUES DESCRIBE DIFFERENT TYPES OF DANCES.
NAME THE DANCE.**

1. THIS DANCE, DEVELOPED AROUND VIENNA, IS USUALLY PERFORMED IN $\frac{3}{4}$ TIME.
ANSWER: WALTZ
2. CHUBBY CHECKER POPULARIZED THIS "ROUND AND ROUND" DANCE.
ANSWER: TWIST
3. HOW LOW CAN YOU GO?
ANSWER: LIMBO



SAMPLE QUESTIONS A

LIGHTNING ROUND: GOVERNORS

THE FOLLOWING CLUES DESCRIBE CURRENT OR FORMER STATE GOVERNORS. NAME THE GOVERNOR.

1. SHE RETURNED TO HER JOB AS GOVERNOR OF ALASKA AFTER THE 2008 PRESIDENTIAL ELECTION.

ANSWER: SARAH PALIN

2. THIS FORMER PRESIDENT ALSO SERVED AS GOVERNOR OF CALIFORNIA IN THE 1960'S AND 70'S.

ANSWER: RONALD REAGAN

3. HE WAS GOVERNOR OF VIRGINIA FROM 1779 TO 1781.

ANSWER: THOMAS JEFFERSON

LIGHTNING ROUND: LITERARY MONSTERS

THE FOLLOWING CLUES DESCRIBE MONSTERS THAT APPEAR IN LITERATURE. NAME THE MONSTER.

1. IN GREEK MYTHOLOGY, PERSEUS BEHEADED THIS SERPENT-HEADED GORGON.

ANSWER: MEDUSA

2. THESE PEOPLE WHO TRANSFORM INTO WOLVES ALSO APPEARED IN ANCIENT MYTHOLOGY.

ANSWER: WEREWOLVES

3. BRAM STOKER PUBLISHED ONE OF THE MOST WELL-KNOWN STORIES ABOUT THIS TYPE OF MONSTER.

ANSWER: VAMPIRE

LIGHTNING ROUND: MUSICALS

THE FOLLOWING QUESTIONS DESCRIBE BROADWAY MUSICALS. NAME THEM.

1. ONE OF MANY DISNEY MUSICALS ON BROADWAY, THIS ONE TELLS THE TALE OF SIMBA.

ANSWER: THE LION KING

2. THIS MUSICAL FEATURES A CAST OF PUPPETS IN AN OFF-COLOR PARODY OF SESAME STREET.

ANSWER: AVENUE Q

3. THIS ANDREW LLOYD WEBER CLASSIC IS THE LONGEST-RUNNING BROADWAY MUSICAL.

ANSWER: PHANTOM OF THE OPERA



ROUND 3: FREE RESPONSE

HISTORY: EUROPEAN GEOGRAPHY

1. THESE ISLANDS ARE IN WHAT CHANNEL?
JERSEY
GUERNSEY
SARK

ANSWER: ENGLISH CHANNEL

2. WHAT EUROPEAN CAPITAL IS CLOSEST TO VATICAN CITY?

ANSWER: ROME

3. TYROL IS A REGION OF THE ALPS IN WESTERN AUSTRIA AND WHAT OTHER COUNTRY?

ANSWER: ITALY

HISTORY: SOUTH AMERICA

1. IN WHICH COUNTRY IN SOUTH AMERICA WOULD YOU FIND THE HIGHEST AND LOWEST POINTS?

ANSWER: ARGENTINA

2. WHAT PEPPER AND SOUTH AMERICAN CAPITAL SHARE THE SAME NAME?

ANSWER: CAYENNE

3. FROM WHAT COUNTRY DID THE RAFT KON-TIKI LEAVE ON A VOYAGE ON THE PACIFIC IN 1947?

ANSWER: PERU

HISTORY: FIRST LADIES

1. SHE WAS THE FIRST FIRST LADY.

ANSWER: MARTHA WASHINGTON

2. SHE WAS FIRST LADY DURING THE WAR OF 1812.

ANSWER: DOROTHY (DOLLY) MADISON

3. SHE WAS FIRST LADY DURING THE KOREAN WAR.

ANSWER: BESS TRUMAN



SAMPLE QUESTIONS A

HISTORY: ECONOMICS & BUSINESS

1. WHAT FRENCH TERM HAS COME TO MEAN THE CLASS ABOVE THE WORKERS AND PEASANTS BUT BELOW THE NOBILITY?

ANSWER: BOURGEOISIE

2. THE PRICE OF ONE FOREIGN CURRENCY EXPRESSED IN TERMS OF ANOTHER IS CALLED WHAT?

ANSWER: EXCHANGE RATE

3. WHICH WORD DESIGNATES A BUSINESS'S ITEMIZED LIST OF GOODS THAT HAVE NOT YET BEEN SOLD?

ANSWER: INVENTORY

ARTS & LITERATURE: FABLES

1. A FEW WORDS OF WISDOM ARE AT THE END OF EACH OF AESOP'S FABLES. WHAT DO WE CALL SUCH APHORISMS?

ANSWER: MORALS OR LESSONS

2. WHAT WAS THE JOB OF THE BOY IN THE FABLE THE BOY WHO CRIED WOLF?

ANSWER: A SHEPHERD

3. WHAT FRUITY PHRASE DO WE USE TODAY TO INDICATE THAT SOME BELITTLING REMARK IS ACTUALLY AN EXPRESSION OF ENVY?

ANSWER: SOUR GRAPES

ARTS & LITERATURE: THE STAGE

1. THE FIRST PUBLIC APPEARANCE OF AN ACTOR ON STAGE IS HIS...

ANSWER: DEBUT

2. MOST PLAYS ARE DIVIDED INTO ACTS, AND THOSE ACTS ARE DIVIDED INTO...

ANSWER: SCENES

3. AN EXTENDED, UNINTERRUPTED SPEECH OR POEM BY A SINGLE ACTOR IS CALLED A...

ANSWER: MONOLOGUE OR SOLILOQUY



SAMPLE QUESTIONS A

ARTS & LITERATURE: MUSIC FUNDAMENTALS

1. MUSIC CAN BE DIVIDED INTO TWO MAJOR CATEGORIES. ONE IS VOCAL. WHAT IS THE OTHER?

ANSWER: INSTRUMENTAL

2. WHAT IS THE COLLECTIVE NAME FOR NATURALS, SHARPS, FLATS AND DOUBLE FLATS?

ANSWER: ACCIDENTALS

3. MUSIC THAT IS PERFORMED IN A KEY OTHER THAN THE KEY IN WHICH IT WAS WRITTEN HAS BEEN...

ANSWER: TRANSPOSED

ARTS & LITERATURE: FICTIONAL WORLDS

1. WHAT LAND, FILLED WITH TALKING ANIMALS AND MYTHICAL CREATURES, WAS CREATED BY THE GREAT LION, ASLAN?

ANSWER: NARNIA

2. NAME THE FICTIONAL WORLD IN WHICH J. M. BARRIE'S "PETER PAN" TAKES PLACE, WHERE A CHILD'S EVERY WISH IS FULFILLED?

ANSWER: NEVERLAND

3. JESSE AARONS JR. AND LESLIE BURKE WERE THE SELF-APPOINTED KING AND QUEEN OF WHAT IMAGINARY KINGDOM, ACCESSIBLE ONLY BY A ROPE SWING OVER A CREEK?

ANSWER: TERABITHIA

SCIENCE: DNA

1. BASE PAIRING IN DNA IS DUE TO WHAT KIND OF CHEMICAL BONDS?

ANSWER: HYDROGEN BONDS

2. JAMES WATSON AND FRANCIS CRICK DISCOVERED THAT THE DNA MOLECULE IS IN THE SHAPE OF A DOUBLE...

ANSWER: HELIX

3. WHAT GENETIC PROCESS ENSURES THAT ALL OF AN INDIVIDUAL'S BODY CELLS HAVE IDENTICAL MOLECULES OF DNA?

ANSWER: MITOSIS



SAMPLE QUESTIONS A

SCIENCE: CIRCULATORY SYSTEM

1. THE VESSELS THROUGH WHICH BLOOD RETURNS TO THE HEART ARE CALLED...

ANSWER: VEINS

2. NAME THE INHERITED DISEASE IN WHICH A PERSON'S BLOOD DOES NOT CLOT.

ANSWER: HEMOPHILIA

3. ARTERIOLES ARE CONNECTED TO VENULES BY...

ANSWER: CAPILLARIES

SCIENCE: INSECTS

1. THREE PAIRS OF JOINTED LEGS ARE ATTACHED TO WHICH OF THE THREE MAIN PARTS OF AN INSECT'S BODY?

ANSWER: THORAX

2. NAME THE DEVELOPMENTAL STAGE OF AN INSECT IN WHICH IT IS NON-FEEDING, IMMOTILE, AND ENCAPSULATED.

ANSWER: PUPA

3. THE MOUTHPARTS OF A MOSQUITO FORM A HOLLOW, TUBE-LIKE ORGAN USED FOR FEEDING. NAME THIS ORGAN.

ANSWER: PROBOSCIS

SCIENCE: GEOLOGY

1. GEOLOGISTS ESTIMATE THAT MORE THAN TWO-THIRDS OF THE EARTH'S CRUSTAL ROCKS BELONG TO WHICH CLASSIFICATION OF ROCK?

ANSWER: IGNEOUS

2. WHAT CATEGORY OF ROCK WAS FORMED FROM COMPRESSED OR CEMENTED PARTICLES OF SAND, SILT, MUD, AND PEBBLES?

ANSWER: SEDIMENTARY

3. STONE FORMATIONS HANGING FROM THE CEILINGS OF CARLSBAD CAVERNS AND OTHER LARGE LIMESTONE CAVES ARE CALLED...

ANSWER: STALACTITES



SAMPLE QUESTIONS A

MATH: DECIMALS

1. WHAT IS THE SUM OF 64.253 AND 28.21?

ANSWER: 92.463

2. WHAT IS THE PRODUCT OF 1.2 AND 4.75?

ANSWER: 5.7

3. EXPRESS $21/8$ AS A DECIMAL.

ANSWER: 2.625

MATH: RADIANS

1. EXPRESS 120 DEGREES IN RADIANS.

ANSWER: $2\pi/3$ OR $(2/3)\pi$

2. EXPRESS $5\pi/4$ RADIANS IN DEGREES.

ANSWER: 225°

3. WHAT IS THE SINE OF $\pi/6$ RADIANS?

ANSWER: $1/2$

MATH: MATHEMATICAL PROPERTIES

1. THIS STATEMENT EXEMPLIFIES WHAT MATHEMATICAL POSTULATE? IF $Y = 2X$ AND $2X = 8$, THEN $Y = 8$.

ANSWER: TRANSITIVE PROPERTY (OF EQUALITY)

2. USING THE VARIABLE Q, STATE THE REFLEXIVE PROPERTY.

ANSWER: $Q = Q$

3. WHICH PROPERTY OF ADDITION IS ILLUSTRATED BY THE FOLLOWING EQUATION:
 $-5 + 5 = 0$

ANSWER: ADDITIVE INVERSE OR OPPOSITE



SAMPLE QUESTIONS A

MATH: PI

1. WHAT IS THE SINE OF PI?

ANSWER: 0

2. TO THE NEAREST TENTH, WHAT IS THE VALUE OF 1000PI?

ANSWER: 3,141.6

3. WHAT PERCENT OF A CIRCLE IS REPRESENTED BY PI RADIANS?

ANSWER: 50%



ROUND 4: THE COMPLETE 180

THE SENATE

1. WHO IS THE MAJORITY LEADER IN THE UNITED STATES SENATE?
10 POINT ANSWER: HARRY REID
2. WHAT STATE DOES REID REPRESENT?
15 POINT ANSWER: NEVADA
3. NAME THE CURRENT PRESIDENT OF THE U.S. SENATE?
20 POINT ANSWER: JOE BIDEN

FILM

1. WHAT NOVEL INVOLVING BEEKEEPING WAS RECENTLY ADAPTED INTO A FILM STARRING DAKOTA FANNING?
10 POINT ANSWER: THE SECRET LIFE OF BEES
2. "THE SECRET LIFE OF BEES" STARS WHAT RAPPER-TURNED-ACTRESS AND "CHICAGO" STAR?
15 POINT ANSWER: QUEEN LATIFAH
3. WHO IS THE AUTHOR OF THE NOVEL "THE SECRET LIFE OF BEES"?
20 POINT ANSWER: SUE MONK KIDD

COOKING MEASUREMENTS

1. HOW MANY FLUID OUNCES EQUAL ONE CUP?
10 POINT ANSWER: EIGHT
2. HOW MANY TEASPOONS EQUAL A TABLESPOON?
15 POINT ANSWER: THREE
3. HOW MANY TABLESPOONS EQUAL A ½ CUP?
20 POINT ANSWER: EIGHT



SAMPLE QUESTIONS A

ENVIRONMENT

1. WHAT RENEWABLE ENERGY SOURCE IS OILMAN T. BOONE PICKENS PROMOTING?
10 POINT ANSWER: WIND POWER
2. WHAT STATE IS THE LARGEST WIND-POWER GENERATOR?
15 POINT ANSWER: TEXAS
3. WHICH EUROPEAN COUNTRY GENERATES NEARLY ONE-FIFTH OF ITS ELECTRICITY WITH WIND TURBINES -- THE HIGHEST PERCENTAGE OF ANY COUNTRY IN THE WORLD?
20 POINT ANSWER: DENMARK

AFRICA

1. PIRATES FROM WHAT COUNTRY SEIZED SEVERAL SHIPS IN THE FALL OF 2008?
10 POINT ANSWER: SOMALIA
2. WHAT INTERNATIONAL BODY PASSED A RESOLUTION TO ALLOW THE USE OF FORCE AGAINST THE PIRATES?
15 POINT ANSWER: UNITED NATIONS
3. WHAT BODY OF WATER OFF OF SOMALIA IS REFERRED TO AS "PIRATE ALLEY"?
20 POINT ANSWER: GULF OF ADEN

TECHNOLOGY

1. WHAT USER-EDITED ONLINE ENCYCLOPEDIA IS CONSIDERING STRICTER EDITING RULES FOR ITS CONTRIBUTORS?
10 POINT ANSWER: WIKIPEDIA
2. STRICTER EDITING WAS CONSIDERED AFTER INCORRECT INFORMATION WAS POSTED ABOUT WHAT MASSACHUSETTS SENATOR?
15 POINT ANSWER: TED KENNEDY
3. WHO IS THE FOUNDER OF WIKIPEDIA, ALONG WITH LARRY SANGER?
20 POINT ANSWER: JIMMY WALES



SAMPLE QUESTIONS A

FILM

1. WHAT 2009 OSCAR-NOMINATED FILM IS SET IN MUMBAI?
10 POINT ANSWER: SLUMDOG MILLIONAIRE
2. THE PLOT OF THE FILM INVOLVES WHAT GAME SHOW?
15 POINT ANSWER: WHO WANTS TO BE A MILLIONAIRE?
3. WHAT DIRECTOR OF "TRAINSPOTTING" ALSO DIRECTED "SLUMDOG MILLIONAIRE?"
20 POINT ANSWER: DANNY BOYLE

THE METRIC SYSTEM

1. A SQUARE HAS A SIDE LENGTH OF 120 CENTIMETERS. EXPRESS THIS LENGTH IN MILLIMETERS USING STANDARD NOTATION.
10 POINT ANSWER: 1200
2. EXPRESS 120 CENTIMETERS IN KILOMETERS USING SCIENTIFIC NOTATION.
15 POINT ANSWER: 1.2 TIMES 10 TO THE NEGATIVE 3RD (POWER)
3. WHAT IS THE AREA OF A SQUARE WITH A SIDE LENGTH OF 120 CENTIMETERS IN SQUARE METERS?
20 POINT ANSWER: 1.44



SAMPLE QUESTIONS B

ROUND 1: MULTIPLE CHOICE

HISTORY: U.S. PRESIDENTS

1. FIRESIDE CHATS ARE ASSOCIATED WITH...
 - A. JAMES GARFIELD
 - B. WOODROW WILSON
 - C. FRANKLIN ROOSEVELT

ANSWER: C. FRANKLIN ROOSEVELT

2. ZACHARY TAYLOR WAS KNOWN AS...
 - A. DUTCH
 - B. ROUGH RIDER
 - C. OLD ROUGH AND READY

ANSWER: C. OLD ROUGH AND READY

3. WHO WAS THE FIRST PRESIDENT TO OCCUPY THE WHITE HOUSE?
 - A. JOHN ADAMS
 - B. JAMES MONROE
 - C. JAMES MADISON

ANSWER: A. JOHN ADAMS

HISTORY: THE 1930'S

1. THE HINDENBURG WAS AN AIRSHIP THAT IGNITED AND WAS COMPLETELY DESTROYED BY FIRE WHILE ATTEMPTING TO LAND IN...
 - A. LAKEHURST, NEW JERSEY
 - B. PITTSBURGH, PENNSYLVANIA
 - C. BOSTON, MASSACHUSETTS

ANSWER: A. LAKEHURST, NEW JERSEY

2. THE FIRST WOMAN CABINET MEMBER IN THE U.S., APPOINTED SECRETARY OF LABOR IN 1933, WAS...
 - A. REBECCA FELTON
 - B. FRANCES PERKINS
 - C. SANDRA O'CONNOR

ANSWER: B. FRANCES PERKINS

3. THE WAGNER ACT OF 1935 CONCERNED...
 - A. SOCIAL SECURITY
 - B. WORKERS' RIGHTS TO ORGANIZE
 - C. PRESERVATION OF WETLANDS

ANSWER: B. WORKERS' RIGHTS TO ORGANIZE



SAMPLE QUESTIONS B

HISTORY: INDIA

1. WHAT DID MAHATMA GANDHI SAY WAS THE FIRST ARTICLE OF HIS FAITH?
A. NONVIOLENCE
B. THE TAO
C. EDUCATION

ANSWER: A. NONVIOLENCE

2. A RIVER SACRED TO THE HINDUS IS THE...
A. NILE
B. GANGES
C. VOLGA

ANSWER: B. GANGES

3. WHO PRECEDED RAJIV GANDHI AS PRIME MINISTER OF INDIA?
A. INDIRA GANDHI
B. SONIA GANDHI
C. MOHANDAS GANDHI

ANSWER: A. INDIRA GANDHI

HISTORY: THE SUPREME COURT

1. WHICH SUPREME COURT CASE ESTABLISHED THE LAW ENFORCEMENT RULE THAT SUSPECTS MUST BE INFORMED OF THEIR RIGHTS?
A. BAKER V. CARR
B. MILLER V. CALIFORNIA
C. MIRANDA V. ARIZONA

ANSWER: C. MIRANDA V. ARIZONA

2. THE ---- CASE BECAME A TEST CASE ON THE LEGAL STATUS OF SLAVERY IN THE TERRITORIES.
A. DRED SCOTT
B. ALLEN BAKKE
C. JOHN SCOPES

ANSWER: A. DRED SCOTT

3. IN UNITED STATES V. NIXON IN 1974, WHAT WAS THE CENTRAL ISSUE?
A. LINE-ITEM VETO
B. EXECUTIVE PRIVILEGE
C. CAMPAIGN FINANCING

ANSWER: B. EXECUTIVE PRIVILEGE



SAMPLE QUESTIONS B

ARTS & LITERATURE: MARK TWAIN

1. IN "THE ADVENTURES OF TOM SAWYER," INJUN JOE AND MUFF POTTER ARE HIRED AS...

- A. GUN RUNNERS
- B. BOOTLEGGERS
- C. GRAVE ROBBERS

ANSWER: C. GRAVE ROBBERS

2. IN "THE ADVENTURES OF HUCKLEBERRY FINN" HUCK AND TOM CONCOCT A PLAN TO SET WHICH CHARACTER FREE?

- A. JOE
- B. JIM
- C. DUKE

ANSWER: B. JIM

3. BECAUSE OF A MARK TWAIN STORY, WHAT ARE ESPECIALLY ASSOCIATED WITH CALAVARAS COUNTY?

- A. FROGS
- B. PREACHERS
- C. STEAMBOATS

ANSWER: A. FROGS

ARTS & LITERATURE: 20TH CENTURY ART

1. WHO DESCRIBED SOME OF HIS BEST WORKS AS "HAND-PAINTED DREAM PHOTOGRAPHS"?

- A. PAUL KLEE
- B. GRANT WOOD
- C. SALVADOR DALI

ANSWER: C. SALVADOR DALI

2. ANSEL ADAMS WAS A MASTER OF...

- A. SCULPTURE
- B. OIL PAINTING
- C. PHOTOGRAPHY

ANSWER: C. PHOTOGRAPHY

3. EDGAR DEGAS IS REMEMBERED FOR PAINTING...

- A. LANDSCAPES
- B. OCEAN SCENES
- C. BALLET DANCERS

ANSWER: C. BALLET DANCERS



SAMPLE QUESTIONS B

ARTS & LITERATURE: 19TH CENTURY MUSIC

1. WHAT WAS THE FIRST NAME OF THE COMPOSER VERDI?
A. GIUSEPPE
B. PIETRO
C. LUDWIG

ANSWER: A. GIUSEPPE

2. DURING WHAT WAR WERE THE LYRICS OF "THE STAR-SPANGLED BANNER" WRITTEN?
A. KOREAN WAR
B. WORLD WAR I
C. WAR OF 1812

ANSWER: C. WAR OF 1812

3. TIN PAN ALLEY WAS IN...
A. BOSTON
B. CHICAGO
C. NEW YORK

ANSWER: C. NEW YORK

ARTS & LITERATURE: AMERICAN POETS

1. WHO WAS PRIMARILY A POET?
A. HONORE BALZAC
B. EMILY DICKINSON
C. TENNESSEE WILLIAMS

ANSWER: B. EMILY DICKINSON

2. WALT WHITMAN AND OLIVER WENDELL HOLMES WERE FROM WHAT REGION IN AMERICA?
A. SOUTHEAST
B. SOUTHWEST
C. NORTHEAST

ANSWER: C. NORTHEAST

3. ONE OF THE CHIEF POETS OF THE HARLEM RENAISSANCE WAS...
A. RALPH WALDO EMERSON
B. WILLIAM CULLEN BRYANT
C. PAUL LAURENCE DUNBAR

ANSWER: C. PAUL LAURENCE DUNBAR



SAMPLE QUESTIONS B

SCIENCE: HEAT

1. HEAT CAN BE MEASURED WITH A(N) ...

- A. AMMETER
- B. CALORIMETER
- C. MANOMETER

ANSWER: B. CALORIMETER

2. HEAT IS TRANSFERRED THROUGH RADIATION, CONDUCTION, AND...

- A. CONVECTION
- B. PROJECTION
- C. DEFLECTION

ANSWER: A. CONVECTION

3. WHICH HAS THE HIGHEST SPECIFIC HEAT?

- A. ZINC
- B. LEAD
- C. WATER

ANSWER: C. WATER

SCIENCE: MUSCLES

1. WHAT DID DR. HENRY GIBBONS DESCRIBE AS "THE ANATOMICAL JUXTAPOSITION OF TWO ORBICULARIS ORIS MUSCLES IN A STATE OF CONTRACTION"?

- A. A WINK
- B. A KISS
- C. A KICK

ANSWER: B. A KISS

2. ABOUT HOW MANY MUSCLES ARE IN THE BODY?

- A. ALMOST 700
- B. 1,066
- C. BETWEEN 300 AND 350

ANSWER: A. ALMOST 700

3. NAME THE MUSCLE NECESSARY FOR RESPIRATION.

- A. BICEPS
- B. DIAPHRAGM
- C. GASTROCNEMIUS

ANSWER: B. DIAPHRAGM



SAMPLE QUESTIONS B

SCIENCE: MOLLUSKS

1. OCTOPI ARE ...

- A. CEPHALOPODS
- B. GASTROPODS
- C. ARTHROPODS

ANSWER: A. CEPHALOPODS

2. A CURRENT OF WATER PASSES INTO A CLAM THROUGH ONE TUBE AND OUT THROUGH ANOTHER. SUCH TUBES ARE...

- A. SHAFTS
- B. SIPHONS
- C. SPIGOTS

ANSWER: B. SIPHONS

3. CELLS FROM WHAT PART OF A BIVALVE MOLLUSK SECRETE THE SHELL?

- A. FOOT
- B. MANTLE
- C. FUNNEL

ANSWER: B. MANTLE

SCIENCE: FORCE

1. FROM NEWTON'S LAW, WE CAN PREDICT HOW A FORCE WILL CHANGE AN OBJECT'S ...

- A. MASS
- B. VOLUME
- C. MOTION

ANSWER: C. MOTION

2. THE MASS OF A PROJECTILE ACCELERATED 20 METERS PER SECOND PER

- A. 2 KG
- B. 4 KG
- C. 6 KG

ANSWER: B. 4 KG

3. THE RATIO OF STRESS TO STRAIN IS THE ELASTIC ...

- A. LIMIT
- B. TENSION
- C. MODULUS

ANSWER: C. MODULUS



SAMPLE QUESTIONS B

MATH: DECIMALS

1. DIVIDE 68 BY .32.

- A. 206
- B. 212.5
- C. 218

ANSWER: B. 212.5

2. WHAT IS X IF $2.5 = X/1.2$?

- A. 2
- B. 3
- C. 4

ANSWER: B. 3

3. WHAT IS THE CLOSEST FRACTION IN 64THS OF AN INCH TO 1.234 INCHES?

- A. $1 \frac{12}{64}$
- B. $1 \frac{13}{64}$
- C. $1 \frac{15}{64}$

ANSWER: C. $1 \frac{15}{64}$

MATH: PYRAMIDS

1. A PYRAMID WITH A PENTAGONAL BASE HAS HOW MANY EDGES?

- A. 6
- B. 8
- C. 10

ANSWER: C. 10

2. HOW MANY CUBIC FEET ARE IN A SQUARE PYRAMID WITH AN ALTITUDE OF TWELVE FEET AND A BASE OF SIX FEET PER EDGE?

- A. 98
- B. 122
- C. 144

ANSWER: C. 144

3. IN CUBIC FEET, WHAT IS ITS VOLUME OF A SQUARE PYRAMID WITH AN ALTITUDE OF 12 FEET AND BASE 5 FEET PER EDGE?

- A. 80
- B. 90
- C. 100

ANSWER: C. 100



SAMPLE QUESTIONS B

MATH: ROMAN NUMERALS

1. THE ROMAN NUMERAL MCMLXX EQUALS...

- A. 1720
- B. 1970
- C. 1850

ANSWER: B. 1970

2. WHICH IS AN INCORRECT PAIRING OF A ROMAN NUMERAL WITH AN ARABIC NUMERAL?

- A. LXXX - 80
- B. DCCXLI - 641
- C. DCCXLIX - 749

ANSWER: B. DCCXLI - 641

3. WHAT HAPPENED IN THE YEAR MDCCLXXVI?

- A. FORT SUMTER FIRED UPON
- B. DECLARATION OF INDEPENDENCE SIGNED
- C. THE MAYFLOWER SET SAIL

ANSWER: B. DECLARATION OF INDEPENDENCE SIGNED

MATH: MEAN

1. WHAT IS THE MEAN OF THIS SET OF NUMBERS? 13 9 23

- A. 13
- B. 14
- C. 15

ANSWER: C. 15

2. THE MEAN OF A SET OF SCORES IS 18.5. THOSE SCORES COULD BE ...

- A. 19, 21, 17, 13
- B. 12, 18, 24, 20
- C. 16, 26, 28, 18

ANSWER: B. 12, 18, 24, 20

3. 26 IS NOT THE MEAN OF ...

- A. 2 AND 50
- B. 9 AND 43
- C. 19 AND 32

ANSWER: C. 19 AND 32



ROUND 2: LIGHTNING ROUND

LIGHTNING ROUND: CHILD STARS

THE FOLLOWING CLUES DESCRIBE PAST AND PRESENT CHILD STARS. IDENTIFY THEM.

1. THIS YOUNG STARLET GOT HER START AS 'LIZZIE MCGUIRE'

ANSWER: HILLARY DUFF

2. THIS HOLLYWOOD STAR GOT HIS BIG BREAK PLAYING 'LUKE' ON 'GROWING PAINS'

ANSWER: LEONARDO DICAPRIO

3. THIS CHILD STAR HAS A DRINK NAMED AFTER HER CONSISTING OF SPRITE AND GRENADINE

ANSWER: SHIRLEY TEMPLE

LIGHTNING ROUND: FAMOUS FIRST LINES

I WILL PROVIDE YOU WITH THE FIRST LINE FROM A FAMOUS PIECE OF LITERATURE. IDENTIFY THE BOOK TITLE.

1. IT WAS THE BEST OF TIMES, IT WAS THE WORST OF TIMES...

ANSWER: TALE OF TWO CITIES

2. CALL ME ISHMAEL

ANSWER: MOBY DICK

3. ALL CHILDREN, EXCEPT ONE, GREW UP

ANSWER: PETER PAN

LIGHTNING ROUND: FOODS OF THE WORLD

THE FOLLOWING CLUES DESCRIBE A FOOD DISH FROM AROUND THE WORLD. IDENTIFY IT.

1. IN ENGLAND THEY SERVE THIS POPULAR DISH WRAPPED IN PAPER

ANSWER: FISH AND CHIPS

2. THIS IS THE NAME FOR AN ITALIAN ICE OR ICE CREAM

ANSWER: GELATO

3. THIS LIGHT FLUFFY DESSERT DISH MADE WITH EGG YOLKS AND BEATEN EGG WHITES HAS A FRENCH NAME

ANSWER: SOUFFLÉ



SAMPLE QUESTIONS B

LIGHTNING ROUND: SOLAR SYSTEM

THE FOLLOWING CLUES DESCRIBE A HEAVENLY BODY. IDENTIFY THEM.

1. THIS IS ALSO KNOWN AS THE GREAT GIANT

ANSWER: JUPITER

2. THIS IS BOTH THE EVENING AND MORNING STAR

ANSWER: VENUS

3. IT'S THE THIRD PLANET FROM THE SUN AND IS A LIVING WORLD

ANSWER: EARTH

LIGHTNING ROUND: STARTS WITH "P"

THE FOLLOWING CLUES DESCRIBE WORDS THAT START WITH THE LETTER "P".

1. THIS AMERICAN INDIAN TRIBE LIVED IN ADOBE HOUSES

ANSWER: PUEBLO

2. THIS IS THE NAME OF THE WINGED HORSE IN GREEK MYTHOLOGY

ANSWER: PEGASUS

3. "A-SQUARED, PLUS B-SQUARED, EQUALS C SQUARED" IN THIS THEOREM

ANSWER: PYTHAGOREAN THEOREM (PYTHAGORUS)

LIGHTNING ROUND: REALITY T.V.

THE FOLLOWING CLUES ARE ABOUT REALITY TELEVISION SHOWS. IDENTIFY THEM.

1. THIS SHOW FEATURES WEALTHY TEENAGERS AS THEY PLAN THEIR EXTRAVAGANT PARTIES

ANSWER: MY SUPER SWEET 16

2. TRIBES COMPETE IN REWARD CHALLENGES AND IMMUNITY CHALLENGES ON THIS SHOW

ANSWER: SURVIVOR

3. HEIDI KLUM TELLS FASHION DESIGNERS THEY ARE EITHER IN OR OUT ON THIS SHOW

ANSWER: PROJECT RUNWAY



SAMPLE QUESTIONS B

LIGHTNING ROUND: THE NFL

**THE FOLLOWING CLUES DESCRIBE NFL TEAMS.
YOU NAME THE TEAM.**

1. JERRY RICE AND JOE MONTANA WERE STARS ON THIS TEAM.

ANSWER: SAN FRANCISCO 49'ERS

2. FANS OF THIS TEAM ARE REFERRED TO AS "CHEESEHEADS."

ANSWER: GREEN BAY PACKERS

3. MIKE DITKA WAS THE HEAD COACH OF THIS TEAM FOR TEN YEARS.

ANSWER: CHICAGO BEARS



ROUND 3: FREE RESPONSE

HISTORY: THE 1950'S

1. WHAT NOVEMBER HOLIDAY WAS CHANGED FROM ARMISTICE DAY IN 1954?

ANSWER: VETERAN'S DAY

2. A CRISIS ERUPTED IN WHAT U.S. CITY IN 1957 WHEN GOVERNOR ORVAL FAUBUS SOUGHT TO BLOCK COURT-ORDERED INTEGRATION OF A HIGH SCHOOL?

ANSWER: LITTLE ROCK

3. IN WHAT CHURCH DID ELIZABETH II'S 1953 CORONATION TAKE PLACE?

ANSWER: WESTMINSTER ABBEY

HISTORY: THE INDUSTRIAL REVOLUTION

1. ELI WHITNEY INVENTED THE COTTON GIN. "GIN" IS SHORT FOR WHAT?

ANSWER: ENGINE

2. WHAT POWERED THE NEWCOMEN ENGINES IN THE EARLY 18TH CENTURY?

ANSWER: STEAM

3. IN THE 1840S, THE SEWING MACHINE WAS INVENTED INDEPENDENTLY BY ELIAS HOWE AND ISAAC...

ANSWER: SINGER

HISTORY: THE OLYMPICS

1. THE 1896 OLYMPIC GAMES WERE HELD IN WHAT CITY?

ANSWER: ATHENS

2. IN THE 1984 OLYMPICS, WHO BECAME THE FIRST AMERICAN WOMAN TO WIN THE ALL-AROUND GOLD MEDAL IN GYMNASTICS?

ANSWER: MARY LOU RETTON

3. WHAT U.S. PRESIDENT INITIATED THE BOYCOTT OF THE MOSCOW SUMMER OLYMPICS?

ANSWER: JIMMY CARTER



SAMPLE QUESTIONS B

HISTORY: EMPIRE

1. WHAT EMPIRE STRETCHED FROM MODERN QUITO, ECUADOR TO MODERN SANTIAGO, CHILE?

ANSWER: INCA(N)

2. WHO WAS THE LAST EMPEROR OF THE AZTEC EMPIRE?

ANSWER: MONTEZUMA (II) OR MONTECZUMA (II)

3. WHAT MACEDONIAN WHO BECAME KING AT AGE 20 FOUNDED AN EMPIRE THAT REACHED FROM GREECE TO INDIA?

ANSWER: ALEXANDER THE GREAT

ARTS & LITERATURE: MYTH

1. ANCIENT GREEKS SAID THE SEA WAS RULED BY WHAT BROTHER OF ZEUS?

ANSWER: POSEIDON

2. WHO HAD THE GIFT OF PROPHECY UNDER THE CONDITION THAT HER PROPHECIES WOULD NEVER BE BELIEVED?

ANSWER: CASSANDRA

3. WHAT MONTH IS NAMED AFTER THE ROMAN QUEEN OF THE GODS AND PROTECTOR OF MARRIAGE?

ANSWER: JUNE

ARTS & LITERATURE: ART IN AMERICA

1. IN 1770, THE BOSTON PAINTER JOHN SINGLETON COPLEY COMPLETED A PORTRAIT OF WHAT LOCAL SILVERSMITH?

ANSWER: PAUL REVERE

2. NAME THE WORLD WAR I AMBULANCE DRIVER WHO MOVED TO CALIFORNIA IN THE 1920S WHERE HE PRODUCED "OSWALD THE RABBIT" AND "ALICE IN CARTOONLAND."

ANSWER: WALT DISNEY

3. AMONG ANDY WARHOL'S FAMOUS WORKS ARE IMAGES OF WHAT STAR OF "SOME LIKE IT HOT"?

ANSWER: (MARYLIN) MONROE



SAMPLE QUESTIONS B

ARTS & LITERATURE: JOHN STEINBECK

1. WHAT NOVEL BY JOHN STEINBECK OPENS WITH THIS?

"KINO AWAKENED IN THE NEAR DARK."

ANSWER: THE PEARL

2. NAME THE NOVEL BY JOHN STEINBECK BASED ON THE BIBLICAL STORY OF CAIN AND ABEL.

ANSWER: EAST OF EDEN

3. WHAT CHARACTER IN "THE GRAPES OF WRATH" WAS AN EX-CONVICT WHO KILLED A DEPUTY DURING AN INCIDENT THAT ENDED WITH THE DEATH OF HIS FRIEND JIM CASY?

ANSWER: TOM JOAD (JR.)

ARTS & LITERATURE: MUSIC HISTORY

1. THESE WERE POPULAR SONGS DURING WHAT WAR?

"KEEP THE HOME FIRES BURNING"

"MADEMOISELLE FROM ARMENTIERES"

"IT'S A LONG WAY TO TIPPERARY"

"PACK UP YOUR TROUBLES IN YOUR OLD KIT BAG"

ANSWER: WORLD WAR I

2. IN 1897, CONGRESS APPROVED WHAT TUNE BY JOHN PHILIP SOUSA AS THE OFFICIAL AMERICAN NATIONAL MARCH?

ANSWER: STARS AND STRIPES FOREVER

3. IN 1924, WITH THE ACCOMPANIMENT OF THE PAUL WHITEMAN ORCHESTRA, WHO PREMIERED HIS "RHAPSODY IN BLUE"?

ANSWER: (GEORGE) GERSHWIN

SCIENCE: THE RESPIRATORY SYSTEM

1. WHERE ARE THE VOCAL CHORDS LOCATED?

ANSWER: LARYNX OR VOICE BOX

2. WHAT IS FORMED BY THE SUBDIVISION OF A BRONCHUS AND TERMINATES IN A NUMBER OF ALVEOLI?

ANSWER: BRONCHIOLE

3. NAME THE STRUCTURES IN THE MUCOUS MEMBRANES OF THE NOSE AND THROAT THAT HELP TRAP SUCH AIRBORNE PARTICLES AS DUST AND BACTERIA.

ANSWER: CILIA



SAMPLE QUESTIONS B

SCIENCE: DINOSAURS

1. THE NAME OF WHAT DINOSAUR LITERALLY MEANS "THREE-HORNED FACE"?
ANSWER: TRICERATOPS
2. WHICH GEOLOGIC ERA BEGAN AFTER THE DINOSAURS DISAPPEARED?
ANSWER: CENOZOIC
3. ALLOSAURUS AND MEGALOSAURUS APPEARED DURING THE JURASSIC PERIOD WHILE TRICERATOPS AND ANKYLOSAURUS APPEARED IN WHAT LATER GEOLOGICAL PERIOD?
ANSWER: CRETACEOUS PERIOD

SCIENCE: CHEMICAL BONDS

1. NAME THE BOND FORMED BETWEEN ATOMS OF A METALLIC ELEMENT IN ITS ZERO OXIDATION STATE AND AN ARRAY OF SIMILAR ATOMS.
ANSWER: METALLIC (BOND)
2. NAME THE HYDROCARBONS WHICH CONTAIN ONLY SINGLE COVALENT BONDS.
ANSWER: ALKANES
3. WHAT COMPOUND IS FORMED BY THE LINKAGE OF TWO OR MORE AMINO-ACID GROUPS TOGETHER?
ANSWER: PEPTIDE

SCIENCE: PHOTOSYNTHESIS

1. THE VOLUME OF OXYGEN LIBERATED IN PHOTOSYNTHESIS IS APPROXIMATELY EQUAL TO THE VOLUME OF WHAT OTHER GAS ABSORBED?
ANSWER: CARBON DIOXIDE
2. EXPERTS ESTIMATE THAT WHAT ONE LIFE FORM ACCOUNTS FOR FIFTY TO NINETY PERCENT OF ALL PHOTOSYNTHESIS ON EARTH?
ANSWER: ALGAE
3. THE PRIMARY PHOTOSYNTHESIZING PIGMENT IN THE CHLOROPLAST IS...
ANSWER: CHLOROPHYLL



SAMPLE QUESTIONS B

MATH: MULTIPLICATION

1. MULTIPLY 5 SQUARED BY 3 SQUARED.

ANSWER: 225 (OR 15 SQUARED)

2. WHAT NUMBER EQUALS 2 TO THE THIRD POWER TIMES 5 TO THE SECOND POWER?

ANSWER: 200

3. WHAT IS THE PRODUCT OF $2X + 3$ AND $4X - 2$?

ANSWER: $8(X \text{ SQUARED}) + 8X - 6$

MATH: SPHERES

1. IF ONE SPHERE HAS THREE TIMES THE RADIUS OF ANOTHER, ITS SURFACE AREA IS HOW MANY TIMES GREATER?

ANSWER: 9 TIMES

2. WHAT IS THE VOLUME, IN TERMS OF PI, OF A SPHERE WITH A DIAMETER OF 12 FEET?

ANSWER: 288 PI CUBIC FEET

3. ONE SPHERE HAS A SURFACE AREA OF 100 SQUARE FEET. WHAT IS THE SURFACE AREA OF ANOTHER SPHERE HAVING A RADIUS TWICE THAT OF THE FIRST?

ANSWER: 400 SQUARE FEET

MATH: RADIUS

1. TWO OVERLAPPING CIRCLES HAVE RADII OF 7 AND 20 INCHES. THE MAXIMUM OVERLAP IS 6 INCHES. WHAT IS THE LENGTH OF A LINE CONNECTING THE CENTERS OF THE CIRCLES?

ANSWER: 21 INCHES

2. FIND THE RADIUS OF A CIRCLE THAT HAS ITS CENTER AT (0, 0) AND PASSES THROUGH (-6, 8).

ANSWER: 10

3. THE AREA OF A CIRCLE WILL BE DIMINISHED BY 36% IF ITS RADIUS IS REDUCED BY WHAT PERCENTAGE?

ANSWER: 20%



SAMPLE QUESTIONS B

MATH: PARALLELOGRAMS

1. A PARALLELOGRAM WITH A HEIGHT OF 8 INCHES HAS AN AREA OF 112 SQUARE INCHES. THE LENGTH OF ITS BASE IS...

ANSWER: 14 INCHES

2. THE AREA OF A PARALLELOGRAM IS 12 AND THE LENGTH IS 3. CALCULATE THE PERIMETER OF THE FIGURE.

ANSWER: 14

3. THE ADJACENT SIDES OF A PARALLELOGRAM ARE 10 FEET AND 15 FEET IN LENGTH. IN A SIMILAR PARALLELOGRAM THE CORRESPONDING SIDES ARE 8 FEET AND 12 FEET IN LENGTH. WHAT IS THE RATIO OF THEIR PERIMETERS?

ANSWER: 5 TO 4



SAMPLE QUESTIONS B

ROUND 4: THE COMPLETE 180

MEDIA

1. IN 2008 THE TRIBUNE COMPANY FILED FOR BANKRUPTCY PROTECTION. WHAT BALTIMORE NEWSPAPER DOES IT OWN?

10 POINT ANSWER: BALTIMORE SUN

2. WHAT HARTFORD, CT BASED PAPER DOES THE TRIBUNE CO. OWN?

15 POINT ANSWER: HARTFORD COURANT

3. THE TRIBUNE CO. ALSO OWNED WHAT MAJOR LEAGUE BASEBALL TEAM?

20 POINT ANSWER: CHICAGO CUBS

POLITICS 1

1. WHAT NATIONAL EVENT TOOK PLACE ON JANUARY 20, 2009?

10 POINT ANSWER: PRESIDENTIAL INAUGURATION

2. WHO ADMINISTERED THE OATH OF OFFICE?

15 POINT ANSWER: (CHIEF JUSTICE) JOHN ROBERTS

3. AT WHAT BUILDING WAS THE INAUGURATION HELD?

20 POINT ANSWER: U.S. CAPITOL OR THE WHITE HOUSE (MAP ROOM)

POLITICS 2

1. IN 1999, PRESIDENT GEORGE W. BUSH MOVED INTO A RANCH HOUSE JUST OUTSIDE OF WHAT SMALL CENTRAL TEXAS TOWN?

10 POINT ANSWER: CRAWFORD

2. ALTHOUGH HE RESIDES IN TEXAS, IN WHAT NEW ENGLAND STATE WAS BUSH BORN?

15 POINT ANSWER: CONNECTICUT

3. BUSH'S FATHER, GEORGE H.W. BUSH, WAS THE HEAD OF WHAT ORGANIZATION UNDER PRESIDENT GERALD FORD?

20 POINT ANSWER: C.I.A.



SAMPLE QUESTIONS B

BRITISH ROYAL FAMILY

1. WHAT ARE THE NAMES OF THE LATE PRINCESS DIANA'S TWO SONS?
10 POINT ANSWER: HARRY (OR HENRY) AND WILLIAM
2. WHICH OF THE TWO PRINCES WAS REVEALED TO HAVE BEEN SERVING ON THE FRONT LINES IN AFGHANISTAN AS A TANK COMMANDER?
15 POINT ANSWER: HARRY OR HENRY
3. WHAT FAMOUS SECONDARY SCHOOL DID PRINCE HARRY ATTEND?
20 POINT ANSWER: ETON

MIDDLE EAST

1. IN JANUARY, 2007 PRESIDENT BUSH ANNOUNCED THE "SURGE," A PLAN TO IMPROVE THE SECURITY SITUATION IN WHAT COUNTRY?
10 POINT ANSWER: IRAQ
2. THE BASE FOR THE COALITION PROVISIONAL AUTHORITY, OTHERWISE KNOWN AS THE "GREEN ZONE," IS LOCATED IN WHAT CITY?
15 POINT ANSWER: BAGHDAD
3. U.S. MILITARY ACTION THAT ULTIMATELY LED TO THE OVERTHROW OF SADDAM HUSSEIN'S BATHIST REGIME BEGAN IN MARCH OF WHAT YEAR?
20 POINT ANSWER: 2003

EUROPE

1. IN 2007, NICOLAS SARKOZY SUCCEEDED JACQUES CHIRAC AS PRESIDENT OF WHAT COUNTRY?
10 POINT ANSWER: FRANCE
2. ALLIED FORCES LANDED ON THE BEACHES IN WHAT FRENCH REGION IN THE D-DAY INVASION DURING WORLD WAR II?
15 POINT ANSWER: NORMANDY
3. AN ANNUAL, HIGHLY ANTICIPATED FILM FESTIVAL IS HELD IN WHAT CITY ON THE FRENCH RIVIERA?
20 POINT ANSWER: CANNES