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Vocabulary Builder Reference from...

Jim Simons: The mathematician who cracked Wall Street | TED Talk

https://www.ted.com/talks/jim_simons_the_mathematician_who_cracked_wall_street

All Words

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Session 1: Word List

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym : arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

phenom

n. an exceptional person, particularly in a particular field or activity; a person who exhibits prodigious talent or ability, often at a young age

synonym : prodigy, genius, superstar

(1) sports **phenom**, (2) child **phenom**

The young musician quickly became a **phenom** in the music world with their debut album.

nation

n. a large organized community of people living in a particular country or region and having a particular culture

synonym : country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**

The **nation** of Japan is known for its unique culture and advanced technology.

security

- n.* the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation

synonym : safety, protection, stock

- (1) national **security**, (2) **security** analyst

The building's **security** system includes cameras, alarms, and security guards.

agency

- n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action

synonym : organization, bureau, institution

- (1) real estate **agency**, (2) intelligence **agency**

The government **agency** regulated the country's food and drug safety standards.

hire

- v.* to give somebody a job

synonym : employ, engage, lease

- (1) **hire** a guide, (2) **hire** a car by the hour

We should always be prepared to **hire** talented recruits.

policy

- n.* a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective

synonym : strategy, plan, guideline

- (1) health **policy**, (2) foreign **policy**

The company's new **policy** on remote work has made it a more inclusive workplace.

irresistible

- adj.* impossible to resist or refuse; very attractive, appealing, or compelling

synonym : resistless, overpowering, compelling

(1) **irresistible** charm, (2) **irresistible** force

The aroma of freshly baked cookies was **irresistible** to her.

cracker

n. a crisp, dry baked food usually made from flour and served as a snack or with soup or cheese; a person who breaks into computer systems or networks without authorization, commonly known as a hacker; a small firework that is designed to make a loud noise when ignited

synonym: biscuit, hacker, banger

(1) cannon **cracker**, (2) computer **cracker**

I love having a cheese and **cracker** platter while watching a movie.

fan

n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

synonym: lover, devotee, blade

(1) a film **fan**, (2) engine cooling **fan**

I'm a big **fan** of French food.

sect

n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

synonym: group, faction, cult

(1) **sect** beliefs, (2) secret **sect**

The minority **sect** believed in a set of unconventional religious practices.

string

n. long, thin material used for tying things together, composed of several twisted threads

synonym: line, wire, rope

(1) retie the **string** and make it strong, (2) tense piano **strings**

She wore a **string** of pearls around her neck.

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym: brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

Intelligent robots that can cooperate with humans have limited motor output for safety.

brook

n. a small stream

synonym: stream, creek, rivulet

(1) music of the **brook**, (2) **brook** trout

A **brook** babbled through the woods.

graduate

n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym: alumna, alum, grad

(1) **graduate** degree program, (2) honor **graduate**

Many employers hire **graduate** trainees to train as managers.

sphere

n. a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

synonym: ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**

The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

subfield

n. a specialized area of study within a particular field of study

synonym: specialty, branch, subdiscipline

(1) **subfield** of study, (2) **subfield** of physics

The **subfield** of artificial intelligence is rapidly advancing.

flourish

v. to grow or develop vigorously or successfully

synonym: boom, advance, succeed

(1) **flourish** economically, (2) **flourish** worldwide

The Ottoman Empire **flourished** for over five centuries.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

condense

v. to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated

synonym: compress, compact, shorten

(1) **condense** the text, (2) **condense** water vapor

I need to **condense** all of my notes into a manageable summary for my presentation.

invariable

adj. unable to be changed or altered; always the same or consistent, with no variation or deviation

synonym: constant, unchanging, fixed

(1) **invariable** law, (2) **invariable** rule

The **invariable** smile on his face made him well-liked by everyone.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

perceive

v. to become aware or conscious of something through the senses

synonym: sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym: finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

profoundly

adv. to a great or complete degree; deeply

synonym: deeply, greatly, completely

(1) **profoundly** insightful, (2) sleep **profoundly**

The novel affected her **profoundly**, causing her to question her beliefs and values.

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

essay

n. a short piece of writing on a particular topic, usually written by a student as a part of a course of study

synonym: paper, commentary, report

(1) score the SAT **essays**, (2) thoughtful **essay**

The Chief editor checks all **essays** for plagiarism with software.

unreasonable

adj. not fair, sensible, or likely to be true

synonym: unjustified, unfair, excessive

(1) **unreasonable** demand, (2) an **unreasonable** amount of

money

It would be **unreasonable** for me to expect you to work overtime without any extra compensation.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

geometry

n. the area of pure mathematics that deals with the points, lines, curves, and surfaces

(1) Euclidean **geometry**, (2) spherical **geometry**

The mathematician pioneered fractal **geometry**.

cast

v. to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

synonym: throw, project, select

(1) **cast** a ballot, (2) **cast** a charming eye

This accident **cast** a dark shadow over their lives.

mystery

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

synonym: enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

ingenuity

n. the quality of inventing things or solving problems in clever new ways

synonym: creativity, invention, originality

(1) the infinite **ingenuity** of man, (2) abound in **ingenuity**

Creativity and **ingenuity** are often brought about by extreme

concentration.

lattice

n. an arrangement of points or particles in a regular, repeating pattern in two or three dimensions; a structure consisting of an ornamental design made of strips of wood or metal

synonym : grid, trellis, mesh

(1) **lattice** ornament, (2) a door with a **lattice** frame

The **lattice** pattern on the fence allowed the vines to climb up and create a natural privacy screen.

origin

n. the first existence or beginning of something

synonym : root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym : watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

gradual

adj. happening slowly over a long period of time or distance; not steep or abrupt

synonym : incremental, gradational, piecemeal

(1) a **gradual** process, (2) a **gradual** change

The country experienced a **gradual** increase in population.

algebra

n. a type of mathematics in which signs and letters represent numbers

synonym : calculus

(1) **algebra** calculation, (2) strong in **algebra**

His classmates were laboring with advanced **algebra**.

topology

n. a branch of mathematics that deals with the properties of space that are preserved under continuous transformations, such as stretching, bending, and twisting, without tearing or gluing

synonym : geometric study, mathematical analysis

(1) mathematical **topology**, (2) **topology** diagram

The mathematician studied the **topology** of different shapes and spaces.

vertex

n. the highest point or apex of something, typically used to describe the highest point of a geometric figure such as a vertex of a triangle or a pyramid

synonym : apex, summit, peak

(1) graph **vertex**, (2) **vertex** of a parabola

The **vertex** of the triangle is located at the top point.

triangle

n. a three-sided polygon with three angles; something that has three sides or parts

synonym : trilateral, delta, triad

(1) **triangle** shape, (2) love **triangle**

The Pythagorean theorem is used to calculate the length of the sides of a right **triangle**.

polygon

n. a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)

synonym : shape, figure, form

(1) regular **polygon**, (2) closed **polygon**

The garden had a complex **polygon** shape with many angles and corners.

tor

n. a peak or rocky outcrop on a hill or mountain; a high, craggy hill or rocky mountain

synonym : rock, peak, crag

(1) **tor** hill, (2) rocky **tor**

We had an excellent view of the surrounding landscape from the top of the granite **tor**.

dough

n. a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta

synonym: flour, mix

(1) work **dough**, (2) **dough** for pastry

She mixed flour, yeast, sugar, and water to make **dough** for the bread.

rectangle

n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

synonym: oblong, square, quadrangle

(1) orthogonal **rectangle**, (2) **rectangle** box

The living room had a **rectangle-shaped** coffee table in the center of it.

characteristic

n. a typical feature or quality that can identify, tell apart, or describe something or somebody

synonym: feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

thrust

v. to push or drive forcibly; to impose or insert; (noun) the force used in pushing

synonym: push, shove, prod

(1) **thrust** a dagger home, (2) **thrust** a plate away

The engine **thrust** the rocket into space.

dimension

n. a measurable extent of a particular kind, such as width, height, or length

synonym: extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

struggle

v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

synonym: toil, strive, compete

(1) **struggle** against discrimination, (2) **struggle** to get the job

He could not **struggle** against temptation.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym: blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

uncover

v. to remove the cover from something; to discover something previously unseen or hidden

synonym: disclose, reveal, unveil

(1) **uncover** a potential problem, (2) **uncover** the truth

He continued his investigation and soon **uncovered** another crime.

volume

n. the amount of space occupied by an object or substance; the magnitude of sound

synonym: capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

apparently

adv. based on what you have heard or read

synonym: evidently, obviously, supposedly

(1) **apparently** simple, (2) **apparently** unrelated
The police **apparently** believed this explanation was plausible.

dandle

v. to bounce or rock a small child or baby on one's knee or in one's arms as an act of affection or to soothe them
synonym: rock, cradle, caress

(1) **dandle** in your arms, (2) **dandle** her child on her knee
She gently **dandled** the baby in her arms until it fell asleep.

flavor

n. the taste sensation produced by a substance in the mouth
synonym: taste, savor, essence

(1) a delicate **flavor**, (2) **flavor** enhancer
The **flavor** of the coffee was rich and full-bodied.

Renaissance

n. a new growth in activity or enthusiasm in anything, particularly art, literature, or music
synonym: rebirth, golden age

(1) artistic **renaissance**, (2) industrial **renaissance**
Folk music is now experiencing a **renaissance**.

industrious

adj. hardworking, diligent, and persistent in effort
synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student
He was known to be very **industrious** and would often work late into the night.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
synonym: productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances
The new washing machine is much more **efficient** than the old one.

astonishing

adj. surprising or shocking; difficult to believe

synonym: surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains
The news of her sudden death was **astonishing** to everyone who knew her.

remarkable

adj. worthy of attention because unusual or special

synonym: outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

surprisingly

adv. in a way that causes amazement or wonder

synonym: exceptionally, notably, unusually

(1) **surprisingly** advanced culture, (2) have **surprisingly** little effect

The exam was **surprisingly** tricky for everyone.

volatile

adj. likely to change rapidly or unexpectedly, or being unstable or explosive

synonym: unstable, unpredictable, explosive

(1) highly- **volatile** elements, (2) **volatile** markets

Their relationship was **volatile** and prone to sudden outbursts of anger.

hedge

n. a fence formed by a line of bushes or shrubs; (verb) limit or avoid something such as duties, issues, and questions by conditions or exceptions

synonym: border, fence, barrier

(1) snip at a **hedge**, (2) **hedge** fund firm

The best way to **hedge** financial risks is to diversify your portfolio.

assemble

v. to collect in one place as a single group

synonym: gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw

puzzle

The president began to **assemble** an army.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

institute

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

defend

v. to protect someone or something from attack, criticism, danger, etc.

synonym: protect, guard, support

(1) **defend** my country, (2) **defend** against a threat

International law allows each nation to **defend** itself when its rights and interests are illegally violated.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym: logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym: rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym: chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

commodity

n. a product or a raw material that can be traded, bought, or sold

synonym: merchandise, goods, entity

(1) **commodity** tax, (2) international **commodity**

The government announced a policy to control the rise in **commodity** prices.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**

To find drunk drivers, police conduct **random** tests.

slight

adj. very small in degree or amount

synonym: feeble, nuanced, subtle

(1) feel a **slight** concern, (2) **slight** increase

We made **slight** modifications to reflect the views of both sides.

upward

adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

synonym: skyward, uphill

(1) look **upward**, (2) demonstrate an **upward** trend

The company adjusted the revenue **upward**.

trend

n. a general direction in which something is changing or developing

synonym: direction, movement, tendency

(1) an international **trend**, (2) the **trend** away from television

The oil price continued their downward **trend**.

currency

n. a system of money in general use in a particular country

synonym: money, tender, cash

(1) **currency** exchange, (2) digital **currency**

The **currency** used in this country is the Euro.

necessarily

adv. in an essential manner; in such a way as could not be otherwise

synonym: inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym: forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

vestige

n. a trace, mark, or evidence of something that once existed but has now disappeared or diminished

synonym : trace, remnant, relic

(1) a **vestige** of a castle wall, (2) a **vestige** of the virus

The abandoned building was a **vestige** of the city's past, with nothing left but memories.

extent

n. the point or degree or area to which something extends

synonym : amount, degree, intensity

(1) certain **extent**, (2) the **extent** of the damage

I was amazed at the **extent** of her generosity.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym : enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

federal

adj. relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level

synonym : national, central, governmental

(1) **federal** regulations, (2) **federal** funding

The **federal** government announced new regulations to protect the environment.

reserve

v. to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance

synonym : keep, hold, preserve

(1) **reserve** the right, (2) **reserve** a concert ticket

You can easily **reserve** seats over the telephone.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights
Human behavior has **fundamental** characteristics.

depart

v. to go away or leave, especially to start a journey
synonym: go away, leave, vacate

(1) arrive and **depart** on time, (2) **depart** from the faith
We **departed** before the temperature fell below zero.

creditor

n. a person, company, etc. to whom a debtor owes money

(1) the **creditor's** claims, (2) bankrupt **creditor**

I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

lure

v. to tempt or persuade someone to do something

synonym: tempt, entice, attract

(1) **lure** prey, (2) **lure** foreign investment

The salesperson used a special offer to **lure** customers into buying the product.

motivation

n. the reason or enthusiasm for acting or behaving in a particular way

synonym: inspiration, incentive, reason

(1) understand his **motivation**, (2) **motivation** for a change

A significant amount of **motivation** is required to be a teacher.

exciting

adj. causing a lot of interest or excitement

synonym: exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and unexpected.

scheme

n. an organized and often large-scale plan or arrangement for doing something

synonym: strategy, blueprint, plan

(1) a pilot **scheme**, (2) draw out a **scheme**

They carefully executed the well-planned **scheme** they had prepared over the years.

unexpected

adj. not anticipated or regarded as likely to happen

synonym: surprising, unanticipated, incredible

(1) an **unexpected** visitor, (2) some **unexpected** events

The **unexpected** rainstorm caused the collapse of the corral.

grist

n. grain that has been ground into flour or meal; any useful material or information that can be processed or utilized

synonym: wheat, grain, corn

(1) **grist** for the debate, (2) grinding **grist**

The mill ground the wheat into a **grist** to make flour.

hem

n. the edge or border of a piece of cloth, typically sewn to prevent fraying or unraveling; a small margin or border around something; (verb) to fold the edge of a piece of fabric and sew it down to create a neat and secure finish

synonym: edge, border, margin

(1) the **hem** of a dress, (2) **hem** the skirt

The **hem** length of her dress was perfect for the evening event.

quarterly

adj. happening every three months

synonym: every three months, three-monthly

(1) **quarterly** publication, (2) **quarterly** review

The company released its **quarterly** earnings report.

historic

adj. famous or significant in history, or potentially so

synonym: memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat

The Chinese people have accomplished several **historic** feats.

byte

n. a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

(1) **byte** code, (2) **byte** array

The computer hard drive had plenty of storage space but was running low on available **bytes**.

mass

n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

synonym: abundance, crowd, mob

(1) a **mass** of molten rock, (2) critical **mass**

The **mass** of people who do not own property is politically impotent.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

anomaly

n. something or someone that deviates from what is expected or normal, often in a way that is difficult to explain or understand

synonym: abnormality, irregularity, deviation

(1) **anomaly** detection, (2) global temperature **anomaly**

The sudden drop in the stock market was an **anomaly** that puzzled many investors.

hypothesis

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

synonym: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

align

v. to put or arrange two or more things in a straight line or to form a straight line

synonym : coordinate, regulate, adjust

(1) **align** the economic interest of each other, (2) **align** with a historical trend

Both parties are now entirely ideologically **aligned**.

persistent

adj. continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time

synonym : tenacious, steadfast, unrelenting

(1) **persistent** cough, (2) **persistent** data

Despite the setbacks, he remained **persistent** in his pursuit of his dreams.

sufficient

adj. adequate; enough for a particular purpose or requirement

synonym : acceptable, ample, satisfactory

(1) **sufficient** time, (2) self- **sufficient** economy

That candidate does not have **sufficient** means to win an election with certainty.

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym : probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

fade

v. to vanish; to fade away; to lose color; to lose freshness

synonym : languish, wither

(1) **fade** away almost completely, (2) **fade** in importance

My memory will **fade**, but my heart will live on.

shock

n. a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

synonym : amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**

He got an electric **shock** at work.

wealth

n. a large amount of money, property, or other things that someone or an organization owns

synonym : affluence, assets, fortunate

(1) majority of his **wealth**, (2) material **wealth**

The **wealth** inequality was unavoidable.

talent

n. a natural ability to be good at something; someone who has a natural ability to be good at something

synonym : endowment, aptitude, capability

(1) a person of diverse **talents**, (2) raw **talent**

Numerous great professional sports **talents** have come from this city.

inequality

n. the unfairness of a society in which some people have more opportunity, money, etc. than others; (mathematics) relation between two values when they are different

synonym : imbalance, prejudice, unfairness

(1) **inequality** in salary, (2) algebraic **inequality**

There are several causes of economic **inequality** within societies.

champion

n. someone who has won first place in a competition; someone who fights for a specific group of people or a belief

synonym : victor, winner, fighter

(1) a **champion** of peace, (2) the grand **champion**

The **champion** bicyclist outrode all his competitors.

dandy

n. a man who is excessively fastidious in his dress and manner; (adjective) very good

synonym : fop, dapper, (adjective) excellent

(1) in a **dandy** manner, (2) fine and **dandy**

He was a positive **dandy** and always dressed in the finest

clothing.

roll v. to move in a particular direction by turning over and over or from side to side
synonym: spin, swirl, wheel
(1) **roll** a ball, (2) **roll** down his cheeks
He was exhausted and **rolled** into bed as soon as he got home.

ratio n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
synonym: proportion, rate, quota
(1) debt-to-income **ratio**, (2) **ratio** of boys to girls
The **ratio** of water to sugar in the recipe is 1:2.

fee n. a sum of money charged for a particular service
synonym: charge, cost, expense
(1) **fee** calculation, (2) service **fee**
The lawyer's **fee** for the case was \$10,000.

profit n. money that is earned in business or by selling things after deducting the costs involved
synonym: earnings, gain, proceeds
(1) gross **profit**, (2) make a **profit**
This business yields little **profit**.

creature n. a living being, especially an animal
synonym: being, animal, organism
(1) **creature** of habit, (2) artificial **creature**
The deep sea **creature** was unlike anything the scientists had ever seen before.

rumor n. a piece of unverified information of uncertain origin that is spread by word of mouth
synonym: gossip, whisper, talk
(1) a false **rumor**, (2) **rumor** mill

There was a baseless **rumor** that the company was going bankrupt.

slightly

adv. in a small degree or extent; a little

synonym : barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

upside

n. the positive aspect or potential of something; the upper side of something

synonym : advantage, benefit, top

(1) have no **upside**, (2) market **upside**

Many people see the **upside** of traveling as an opportunity to experience new cultures and broaden their horizons.

investor

n. someone who puts money or capital into something to gain financial returns

synonym : financier, banker, stockholder

(1) **investor** lawsuit, (2) a real estate **investor**

Institutional **investors** refrained from buying stocks amid the booming economy.

spectacular

adj. striking or impressive to look at or in performance or achievement

synonym : breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth

The **spectacular** fireworks display was the highlight of the festival.

mad

adj. insane, especially due to a mental illness; very angry

synonym : crazy, insane, furious

(1) a **mad** person, (2) gets **mad** easily

He was **mad** with joy to see the results.

withdraw

v. to remove or take back something; to stop participating in something

synonym :

retract, remove, back out

(1) **withdraw** from public life, (2) **withdraw** \$500 from my account

The company decided to **withdraw** its proposal due to public opposition.

attract

v. to draw or entice someone or something towards them through the qualities they have, especially positive ones

synonym: lure, entice, draw in

(1) **attract** attention, (2) **attract** customers

The government is eager to **attract** international investment.

opposed

adj. being completely different from something or disagreeing strongly with something

synonym: anti, averse, hostile

(1) two **opposed** characters, (2) absolutely **opposed** to abortion

I'm strongly **opposed** to that plan.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

invest

v. to put money, effort, time, etc. into something to make a profit or achieve a result

synonym: fund, sponsor, support

(1) **invest** in stocks, (2) **invest** capital

The government should view children as national assets and actively **invest** in them.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only

improvisation.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym: fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

phase

n. any stage in a series of events, change, or development

synonym: degree, stage, step

(1) enter on the last **phase**, (2) two- **phase** structure

The era of the industrial revolution was a crucial **phase** of history.

chain

n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

synonym: series, string, link

(1) **chain** reaction, (2) supply **chain**

The **chain** on my bike broke, leaving me stranded.

boost

v. to improve, raise, or increase something

synonym: raise, advance, promote

(1) **boost** the economy, (2) **boost** flexibility

The new service helped **boost** net income by 10%.

philanthropic

adj. characterized by a desire to promote the welfare of others, especially by donating money or providing charitable aid; of or relating to the practice of philanthropy

synonym: charitable, benevolent, generous

(1) **philanthropic** donation, (2) **philanthropic** mission

The **philanthropic** organization donated millions of dollars to fund medical research.

claim

v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or

something that one believes to be true

synonym : assert, declare, maintain

(1) **claim** responsibility, (2) false **claim**

He wants to **claim** ownership of the abandoned property.

convenient

adj. useful, helpful, or quick to do

synonym : timely, fortunate, suitable

(1) **convenient** way, (2) **convenient** location

The airport offers five **convenient** access routes.

charity

n. an organization that helps people in need, especially by providing food, shelter, or money; a kindly and sympathetic attitude toward people

synonym : philanthropy, benevolence, generosity

(1) **charity** work, (2) ask **charity**

She volunteers at a local **charity** every weekend to help those in need.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

emerge

v. to move out of or away from something and become visible

synonym : arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

aspire

v. to have an ambition or a desire to achieve something, typically something high or great

synonym : aim, desire, strive

(1) **aspire** to greatness, (2) **aspire** after perfection

She **aspired** to become a successful businesswoman.

morale

n. the emotional or mental state of a person or group, especially in relation to confidence, enthusiasm, and determination

synonym : spirit, confidence, optimism

(1) the **morale** of soldiers, (2) improve employee **morale**
The team's **morale** improved after winning the championship.

educational

adj. relating to education or providing knowledge or instruction

synonym : instructional, informative, enlightening

(1) **educational** system, (2) elevate **educational** standards
The museum offers a variety of **educational** programs for children and adults.

communal

adj. belonging to or used by a group rather than individuals; for common use

synonym : collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds
Communal elections were held in several European countries.

celebrate

v. to acknowledge a memorable or good day or event with a social gathering or enjoyable activity

synonym : praise, glorify, honor

(1) **celebrate** his election, (2) **celebrate** Christmas
He **celebrated** the 10th anniversary of his tenure.

fascinating

adj. extremely interesting

synonym : alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me
The museum houses a **fascinating** collection of Celtic artifacts.

geology

n. a science that deals with the history of the earth as recorded in rocks

synonym : earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

tortuous

adj. full of twists and turns; not direct or straightforward; excessively complicated

synonym: twisted, convoluted, winding

(1) **tortuous** road, (2) **tortuous** path

The hiker had a difficult time navigating the **tortuous** mountain trail.

settle

v. to reach an agreement or disagreement

synonym: inhabit, occupy, decide

(1) **settle** a dispute, (2) **settle** down in the town

I don't want to **settle** for second best.

steady

adj. firmly fixed, supported, or balanced; not shaking or moving

synonym: stable, solid, secure

(1) **steady** increase, (2) take a **steady** job

The patient's vital signs are **steady**, indicating a stable condition.

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of

synthetic chemicals

synonym : biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

methane

n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel

(1) atmospheric **methane**, (2) reduce **methane** emissions

The ignition of **methane** gas in the plant killed five employees.

formaldehyde

n. a colorless, flammable liquid with a strong, pungent smell used as a preservative and in the manufacture of various products

synonym : methanal

(1) **formaldehyde** solution, (2) **formaldehyde** odor

Exposure to high levels of **formaldehyde** can irritate the eyes, nose, and throat, as well as respiratory problems and cancer.

cyanide

n. a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison

synonym : nitrile, poison, toxin

(1) **cyanide** poisoning, (2) hydrogen **cyanide**

The use of **cyanide** as a chemical weapon is prohibited under international law.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

frail

adj. weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength

synonym : weak, delicate, fragile

(1) **frail** body, (2) **frail** condition

My grandfather's health has declined, and he is now quite **frail**.

fallow

adj. describing land that is unplanted or uncultivated; describing a period of rest or inactivity, particularly about land being left to rest

synonym : uncultivated, dormant, idle

(1) **fallow** period, (2) **fallow** ground

The **fallow** field was left unplanted to allow the soil to regain nutrients.

improbable

adj. not likely to happen or be true; unlikely; having a low probability or chance of occurring

synonym : unlikely, doubtful, implausible

(1) **improbable** story, (2) **improbable** event

It is **improbable** that we will find a solution to this problem overnight.

singularity

n. (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind

synonym : black hole, individualism, uniqueness

(1) black hole **singularity**, (2) the **singularity** of the Divine
Scientists have predicted that the universe will end in a **singularity**, where all matter will collapse into an infinitely dense point.

musky

adj. having a strong, earthy smell that is often reminiscent of musk or moss

synonym : musty, earthy, pungent

(1) **musky** aroma, (2) **musky** perfume

The **musky** scent of the old book filled the air of the dusty library.

infuse

v. to fill something with a particular quality, feeling, or influence; to imbue

synonym : instill, fill, permeate

(1) **infuse** with spirit, (2) **infuse** life with meaning

She **infused** fresh herbs into the soup for added flavor.

absolute

adj. perfect or complete or to the most considerable degree possible

synonym : complete, infrangible, indisputable

(1) **absolute** loyalty, (2) an **absolute** must

Gandhi had an **absolute** zeal for nonviolence.

fortune

n. a large amount of money or property; chance or luck as an unknown and arbitrary force affecting human affairs

synonym : wealth, affluence, assets

(1) ill **fortune**, (2) bit of good **fortune**

Capitalism guarantees the right of ownership of personal **fortune**.

inspiration

n. something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

synonym : motivation, drive, encouragement

(1) source of **inspiration**, (2) get **inspiration** from nature

He found **inspiration** in the works of his favorite authors.

Session 2: Spelling

- | | |
|----------------------------|---|
| 1. music of the br__k | <i>n.</i> a small stream |
| 2. h_m the skirt | <i>n.</i> the edge or border of a piece of cloth, typically sewn to prevent fraying or unraveling; a small margin or border around something; (verb) to fold the edge of a piece of fabric and sew it down to create a neat and secure finish |
| 3. con_____nt way | <i>adj.</i> useful, helpful, or quick to do |
| 4. br__k trout | <i>n.</i> a small stream |
| 5. human ev_____on | <i>n.</i> a gradual process of transformation of living things |
| 6. se___e down in the town | <i>v.</i> to reach an agreement of disagreement |
| 7. qu_____ly review | <i>adj.</i> happening every three months |
| 8. irr_____ble charm | <i>adj.</i> impossible to resist or refuse; very attractive, appealing, or compelling |
| 9. solar ast_____er | <i>n.</i> a physicist who studies astronomy |
| 10. ab_____te loyalty | <i>adj.</i> perfect or complete or to the most considerable degree possible |
| 11. genic com_____ons | <i>n.</i> a collection of things that have been combined; an assemblage of separate parts or qualities |
| 12. r__l a ball | <i>v.</i> to move in a particular direction by turning over and over or from side to side |

ANSWERS: 1. brook, 2. hem, 3. convenient, 4. brook, 5. evolution, 6. settle, 7. quarterly, 8. irresistible, 9. astronomer, 10. absolute, 11. combination, 12. roll

13. f_e calculation *n.* a sum of money charged for a particular service
14. bit of good fo_____e *n.* a large amount of money or property; chance or luck as an unknown and arbitrary force affecting human affairs
15. an international tr__d *n.* a general direction in which something is changing or developing
16. a ve_____e of the virus *n.* a trace, mark, or evidence of something that once existed but has now disappeared or diminished
17. a person of diverse ta____ts *n.* a natural ability to be good at something; someone who has a natural ability to be good at something
18. cannon cr_____r *n.* a crisp, dry baked food usually made from flour and served as a snack or with soup or cheese; a person who breaks into computer systems or networks without authorization, commonly known as a hacker; a small firework that is designed to make a loud noise when ignited
19. national se_____ty *n.* the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation
20. fas_____ng story *adj.* extremely interesting

ANSWERS: 13. fee, 14. fortune, 15. trend, 16. vestige, 17. talent, 18. cracker, 19. security, 20. fascinating

21. real estate ag___y *n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action
22. ch____y work *n.* an organization that helps people in need, especially by providing food, shelter, or money; a kindly and sympathetic attitude toward people
23. an ab____te must *adj.* perfect or complete or to the most considerable degree possible
24. ex____ng football player *adj.* causing a lot of interest or excitement
25. do__h for pastry *n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
26. su____nd a town *v.* to be all around something or somebody
27. an____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
28. co____se water vapor *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
29. the sin____ty of the Divine *n.* (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind

ANSWERS: 21. agency, 22. charity, 23. absolute, 24. exciting, 25. dough, 26. surround, 27. analyze, 28. condense, 29. singularity

30. st___y increase *adj.* firmly fixed, supported, or balanced; not shaking or moving
31. rocky t_r *n.* a peak or rocky outcrop on a hill or mountain; a high, craggy hill or rocky mountain
32. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
33. mu___y perfume *adj.* having a strong, earthy smell that is often reminiscent of musk or moss
34. ve_____x of a parabola *n.* the highest point or apex of something, typically used to describe the highest point of a geometric figure such as a vertex of a triangle or a pyramid
35. sl_____ly alkaline soils *adv.* in a small degree or extent; a little
36. fl_____sh worldwide *v.* to grow or develop vigorously or successfully
37. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
38. mu___y aroma *adj.* having a strong, earthy smell that is often reminiscent of musk or moss
39. ine_____ty in salary *n.* the unfairness of a society in which some people have more opportunity, money, etc. than others; (mathematics) relation between two values when they are different
40. tense piano st___gs *n.* long, thin material used for tying things together, composed of several twisted threads

ANSWERS: 30. steady, 31. tor, 32. predict, 33. musky, 34. vertex, 35. slightly, 36. flourish, 37. tremendous, 38. musky, 39. inequality, 40. string

41. at_____t attention *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
42. cu_____cy exchange *n.* a system of money in general use in a particular country
43. a bold hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
44. a m__s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
45. local ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
46. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
47. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
48. an int_____nt person *adj.* having the capacity for thought and reason, especially to a high degree
49. sp___e of influence *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
50. ask ch_____y *n.* an organization that helps people in need, especially by providing food, shelter, or money; a kindly and sympathetic attitude toward people

ANSWERS: 41. attract, 42. currency, 43. hypothesis, 44. mass, 45. geology, 46. discovery, 47. fundamental, 48. intelligent, 49. sphere, 50. charity

51. or___n of information *n.* the first existence or beginning of something
52. improve employee mo___e *n.* the emotional or mental state of a person or group, especially in relation to confidence, enthusiasm, and determination
53. fa___w ground *adj.* describing land that is unplanted or uncultivated; describing a period of rest or inactivity, particularly about land being left to rest
54. stripes cha_____tic of the zebra *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
55. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
56. completely fas_____ng to me *adj.* extremely interesting
57. unsolved my_____y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
58. co_____se the text *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
59. ru__r mill *n.* a piece of unverified information of uncertain origin that is spread by word of mouth

ANSWERS: 51. origin, 52. morale, 53. fallow, 54. characteristic, 55. decide, 56. fascinating, 57. mystery, 58. condense, 59. rumor

60. qu_____ly publication *adj.* happening every three months
61. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
62. a gr_____l process *adj.* happening slowly over a long period of time or distance; not steep or abrupt
63. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
64. an unr_____ble amount of money *adj.* not fair, sensible, or likely to be true
65. bankrupt cr_____or *n.* a person, company, etc. to whom a debtor owes money
66. l__e foreign investment *v.* to tempt or persuade someone to do something
67. talented ph_____st *n.* a scientist who specializes in the field of physics
68. two op_____d characters *adj.* being completely different from something or disagreeing strongly with something
69. un_____r the truth *v.* to remove the cover from something; to discover something previously unseen or hidden
70. a gr_____l change *adj.* happening slowly over a long period of time or distance; not steep or abrupt
71. fr__l body *adj.* weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength
72. bo__t the economy *v.* to improve, raise, or increase something

ANSWERS: 60. quarterly, 61. improvisation, 62. gradual, 63. dimension, 64. unreasonable, 65. creditor, 66. lure, 67. physicist, 68. opposed, 69. uncover, 70. gradual, 71. frail, 72. boost

80. per_____nt cough *adj.* continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time
81. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
82. ce_____te his election *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
83. sl___t increase *adj.* very small in degree or amount
84. international co_____ty *n.* a product or a raw material that can be traded, bought, or sold
85. tr_____le shape *n.* a three-sided polygon with three angles; something that has three sides or parts
86. elevate edu_____al standards *adj.* relating to education or providing knowledge or instruction
87. a false ru__r *n.* a piece of unverified information of uncertain origin that is spread by word of mouth
88. sports ph___m *n.* an exceptional person, particularly in a particular field or activity; a person who exhibits prodigious talent or ability, often at a young age
89. edu_____al system *adj.* relating to education or providing knowledge or instruction
90. su_____ld of study *n.* a specialized area of study within a particular field of study

ANSWERS: 80. persistent, 81. random, 82. celebrate, 83. slight, 84. commodity, 85. triangle, 86. educational, 87. rumor, 88. phenom, 89. educational, 90. subfield

91. co_____ty tax *n.* a product or a raw material that can be traded, bought, or sold
92. have sur_____gly little effect *adv.* in a way that causes amazement or wonder
93. na___n-state *n.* a large organized community of people living in a particular country or region and having a particular culture
94. spherical ge_____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
95. d_e rabbit *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
96. laws of ph_____s *n.* the science of matter and energy and their interactions
97. s__t beliefs *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
98. black hole sin_____ty *n.* (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind
99. in_____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

ANSWERS: 91. commodity, 92. surprisingly, 93. nation, 94. geometry, 95. doe, 96. physics, 97. sect, 98. singularity, 99. institute

100. telescopic vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
101. material we___h *n.* a large amount of money, property, or other things that someone or an organization owns
102. to_____us path *adj.* full of twists and turns; not direct or straightforward; excessively complicated
103. abound in in_____ty *n.* the quality of inventing things or solving problems in clever new ways
104. understand his mot_____on *n.* the reason or enthusiasm for acting or behaving in a particular way
105. ra__o of boys to girls *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
106. market up___e *n.* the positive aspect or potential of something; the upper side of something
107. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
108. arrive and de___t on time *v.* to go away or leave, especially to start a journey
109. the mo___e of soldiers *n.* the emotional or mental state of a person or group, especially in relation to confidence, enthusiasm, and determination
110. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

ANSWERS: 100. vision, 101. wealth, 102. tortuous, 103. ingenuity, 104. motivation, 105. ratio, 106. upside, 107. algorithm, 108. depart, 109. morale, 110. graph

111. c__t a charming eye *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
112. irr_____ble force *adj.* impossible to resist or refuse; very attractive, appealing, or compelling
113. vo___e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
114. service f_e *n.* a sum of money charged for a particular service
115. vo_____le markets *adj.* likely to change rapidly or unexpectedly, or being unstable or explosive
116. draw out a sc___e *n.* an organized and often large-scale plan or arrangement for doing something
117. inv_____le rule *adj.* unable to be changed or altered; always the same or consistent, with no variation or deviation
118. in_____or lawsuit *n.* someone who puts money or capital into something to gain financial returns
119. in a da__y manner *n.* a man who is excessively fastidious in his dress and manner; (adjective) very good
120. fr__l condition *adj.* weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength
121. nec_____ly true *adv.* in an essential manner; in such a way as could not be otherwise
122. closed po_____n *n.* a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)

ANSWERS: 111. cast, 112. irresistible, 113. volume, 114. fee, 115. volatile, 116. scheme, 117. invariable, 118. investor, 119. dandy, 120. frail, 121. necessarily, 122. polygon

123. al__n with a historical trend *v.* to put or arrange two or more things in a straight line or to form a straight line
124. re____ve factors *adj.* considered and evaluated through comparison with something else
125. la____e ornament *n.* an arrangement of points or particles in a regular, repeating pattern in two or three dimensions; a structure consisting of an ornamental design made of strips of wood or metal
126. re____e a concert ticket *v.* to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance
127. wi____aw \$500 from my account *v.* to remove or take back something; to stop participating in something
128. da___e her child on her knee *v.* to bounce or rock a small child or baby on one's knee or in one's arms as an act of affection or to soothe them
129. f__e in importance *v.* to vanish; to fade away; to lose color; to lose freshness
130. con____nt location *adj.* useful, helpful, or quick to do
131. the cr____or's claims *n.* a person, company, etc. to whom a debtor owes money
132. fairly ty____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
133. child ph___m *n.* an exceptional person, particularly in a particular field or activity; a person who exhibits prodigious talent or ability, often at a young age

ANSWERS: 123. align, 124. relative, 125. lattice, 126. reserve, 127. withdraw, 128. dandle, 129. fade, 130. convenient, 131. creditor, 132. typical, 133. phenom

134. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
135. se___e a dispute *v.* to reach an agreement of disagreement
136. app_____ly simple *adv.* based on what you have heard or read
137. hydrogen cy_____e *n.* a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison
138. high vo___e *n.* the amount of space occupied by an object or substance; the magnitude of sound
139. thoughtful es__y *n.* a short piece of writing on a particular topic, usually written by a student as a part of a course of study
140. spe_____ar view *adj.* striking or impressive to look at or in performance or achievement
141. suf_____nt time *adj.* adequate; enough for a particular purpose or requirement
142. ch__n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
143. look up___d *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

ANSWERS: 134. discovery, 135. settle, 136. apparently, 137. cyanide, 138. volume, 139. essay, 140. spectacular, 141. sufficient, 142. chain, 143. upward

144. as___e after perfection *v.* to have an ambition or a desire to achieve something, typically something high or great
145. unr_____ble demand *adj.* not fair, sensible, or likely to be true
146. sh__k-resistant *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
147. ob_____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
148. an une_____ed visitor *adj.* not anticipated or regarded as likely to happen
149. industrial ren_____ce *n.* a new growth in activity or enthusiasm in anything, particularly art, literature, or music
150. al__n the economic interest of each other *v.* to put or arrange two or more things in a straight line or to form a straight line
151. gr__t for the debate *n.* grain that has been ground into flour or meal; any useful material or information that can be processed or utilized
152. take a st___y job *adj.* firmly fixed, supported, or balanced; not shaking or moving
153. enter on the last ph__e *n.* any stage in a series of events, change, or development
154. strong in al_____a *n.* a type of mathematics in which signs and letters represent numbers

ANSWERS: 144. aspire, 145. unreasonable, 146. shock, 147. observe, 148. unexpected, 149. Renaissance, 150. align, 151. grist, 152. steady, 153. phase, 154. algebra

155. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
156. se_____ty analyst *n.* the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation
157. the grand ch_____on *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
158. app_____ly unrelated *adv.* based on what you have heard or read
159. imp_____le event *adj.* not likely to happen or be true; unlikely; having a low probability or chance of occurring
160. h__e a car by the hour *v.* to give somebody a job
161. feel a sl___t concern *adj.* very small in degree or amount
162. ast_____ng achievement *adj.* surprising or shocking; difficult to believe
163. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
164. sur_____gly advanced culture *adv.* in a way that causes amazement or wonder
165. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future

ANSWERS: 155. planet, 156. security, 157. champion, 158. apparently, 159. improbable, 160. hire, 161. slight, 162. astonishing, 163. doe, 164. surprisingly, 165. prediction

166. pro_____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
167. cl__m responsibility *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
168. phi_____pic mission *adj.* characterized by a desire to promote the welfare of others, especially by donating money or providing charitable aid; of or relating to the practice of philanthropy
169. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
170. racial or___n *n.* the first existence or beginning of something
171. in___t in stocks *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
172. gross pr___t *n.* money that is earned in business or by selling things after deducting the costs involved
173. business sp___e *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
174. get ins_____on from nature *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

ANSWERS: 166. probabilistic, 167. claim, 168. philanthropic, 169. bunch, 170. origin, 171. invest, 172. profit, 173. sphere, 174. inspiration

175. co_____al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
176. retie the st____g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
177. for_____yde solution *n.* a colorless, flammable liquid with a strong, pungent smell used as a preservative and in the manufacture of various products
178. a door with a la_____e frame *n.* an arrangement of points or particles in a regular, repeating pattern in two or three dimensions; a structure consisting of an ornamental design made of strips of wood or metal
179. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
180. global temperature an_____y *n.* something or someone that deviates from what is expected or normal, often in a way that is difficult to explain or understand
181. cr_____re of habit *n.* a living being, especially an animal
182. work do__h *n.* a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
183. artistic ren_____ce *n.* a new growth in activity or enthusiasm in anything, particularly art, literature, or music
184. st_____le to get the job *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

ANSWERS: 175. communal, 176. string, 177. formaldehyde, 178. lattice, 179. geology, 180. anomaly, 181. creature, 182. dough, 183. Renaissance, 184. struggle

185. am____g advances *adj.* extremely surprising, especially in a way that you like or admire
186. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
187. ty____l leader *adj.* having the usual characteristics or traits of a specific group of things
188. death from sh__k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
189. cy____e poisoning *n.* a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison
190. source of ins____on *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
191. honor gr____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
192. absolutely op____d to abortion *adj.* being completely different from something or disagreeing strongly with something
193. self-suf____nt economy *adj.* adequate; enough for a particular purpose or requirement

ANSWERS: 185. amazing, 186. planet, 187. typical, 188. shock, 189. cyanide, 190. inspiration, 191. graduate, 192. opposed, 193. sufficient

194. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
195. graph ve___x *n.* the highest point or apex of something, typically used to describe the highest point of a geometric figure such as a vertex of a triangle or a pyramid
196. he___e fund firm *n.* a fence formed by a line of bushes or shrubs; (verb) limit or avoid something such as duties, issues, and questions by conditions or exceptions
197. pe_____ve light *v.* to become aware or conscious of something through the senses
198. my_____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
199. phi_____pic donation *adj.* characterized by a desire to promote the welfare of others, especially by donating money or providing charitable aid; of or relating to the practice of philanthropy
200. ex_____ng news *adj.* causing a lot of interest or excitement
201. atmospheric me_____e *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
202. mathematical to_____gy *n.* a branch of mathematics that deals with the properties of space that are preserved under continuous transformations, such as stretching, bending, and twisting, without tearing or gluing

ANSWERS: 194. dimension, 195. vertex, 196. hedge, 197. perceive, 198. mystery, 199. philanthropic, 200. exciting, 201. methane, 202. topology

203. love tr____le *n.* a three-sided polygon with three angles; something that has three sides or parts
204. snip at a he__e *n.* a fence formed by a line of bushes or shrubs; (verb) limit or avoid something such as duties, issues, and questions by conditions or exceptions
205. the infinite in_____ty of man *n.* the quality of inventing things or solving problems in clever new ways
206. fl___r enhancer *n.* the taste sensation produced by a substance in the mouth
207. research in_____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
208. achieve spe_____ar growth *adj.* striking or impressive to look at or in performance or achievement
209. demonstrate an up___d trend *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
210. r__l down his cheeks *v.* to move in a particular direction by turning over and over or from side to side
211. th___t a plate away *v.* to push or drive forcibly; to impose or insert; (noun) the force used in pushing
212. bo__t flexibility *v.* to improve, raise, or increase something
213. fl_____sh economically *v.* to grow or develop vigorously or successfully

ANSWERS: 203. triangle, 204. hedge, 205. ingenuity, 206. flavor, 207. institute, 208. spectacular, 209. upward, 210. roll, 211. thrust, 212. boost, 213. flourish

214. majority of his we___h *n.* a large amount of money, property, or other things that someone or an organization owns
215. intelligence ag___y *n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action
216. sleep pro_____ly *adv.* to a great or complete degree; deeply
217. re_____e the right *v.* to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance
218. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
219. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
220. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
221. critical m__s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
222. score the SAT es__ys *n.* a short piece of writing on a particular topic, usually written by a student as a part of a course of study

ANSWERS: 214. wealth, 215. agency, 216. profoundly, 217. reserve, 218. bunch, 219. random, 220. algorithm, 221. mass, 222. essay

223. da___e in your arms *v.* to bounce or rock a small child or baby on one's knee or in one's arms as an act of affection or to soothe them
224. em___e from poverty *v.* to move out of or away from something and become visible
225. test my hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
226. pro_____ly insightful *adv.* to a great or complete degree; deeply
227. at inc_____le speed *adj.* unbelievable; enormous
228. secret s__t *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
229. al_____a calculation *n.* a type of mathematics in which signs and letters represent numbers
230. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
231. wi_____aw from public life *v.* to remove or take back something; to stop participating in something
232. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
233. some une_____ed events *adj.* not anticipated or regarded as likely to happen

ANSWERS: 223. dandle, 224. emerge, 225. hypothesis, 226. profoundly, 227. incredible, 228. sect, 229. algebra, 230. predict, 231. withdraw, 232. graph, 233. unexpected

234. b__e code *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
235. reduce me_____e emissions *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
236. a delicate fl___r *n.* the taste sensation produced by a substance in the mouth
237. fine and da___y *n.* a man who is excessively fastidious in his dress and manner; (adjective) very good
238. de___d my country *v.* to protect someone or something from attack, criticism, danger, etc.
239. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
240. a ve_____e of a castle wall *n.* a trace, mark, or evidence of something that once existed but has now disappeared or diminished
241. fe_____l regulations *adj.* relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level
242. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
243. raw ta___t *n.* a natural ability to be good at something; someone who has a natural ability to be good at something

ANSWERS: 234. byte, 235. methane, 236. flavor, 237. dandy, 238. defend, 239. analyze, 240. vestige, 241. federal, 242. biology, 243. talent

244. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
245. amateur ast_____er *n.* a physicist who studies astronomy
246. h__e a guide *v.* to give somebody a job
247. a stone wall su_____nds the palace *v.* to be all around something or somebody
248. achieve the hi_____ic feat *adj.* famous or significant in history, or potentially so
249. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
250. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
251. have no up_____e *n.* the positive aspect or potential of something; the upper side of something
252. to _____gy diagram *n.* a branch of mathematics that deals with the properties of space that are preserved under continuous transformations, such as stretching, bending, and twisting, without tearing or gluing
253. as_____e to greatness *v.* to have an ambition or a desire to achieve something, typically something high or great
254. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

ANSWERS: 244. fundamental, 245. astronomer, 246. hire, 247. surround, 248. historic, 249. mathematics, 250. improvisation, 251. upside, 252. topology, 253. aspire, 254. observe

255. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
256. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
257. certain ex____t *n.* the point or degree or area to which something extends
258. not nec_____ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
259. mot_____on for a change *n.* the reason or enthusiasm for acting or behaving in a particular way
260. regular po_____n *n.* a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)
261. re_____le box *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
262. supply ch__n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
263. make a pr____t *n.* money that is earned in business or by selling things after deducting the costs involved
264. to_____us road *adj.* full of twists and turns; not direct or straightforward; excessively complicated
265. ev_____on theory *n.* a gradual process of transformation of living things

ANSWERS: 255. probabilistic, 256. assemble, 257. extent, 258. necessarily, 259. motivation, 260. polygon, 261. rectangle, 262. chain, 263. profit, 264. tortuous, 265. evolution

266. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
267. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
268. in___e life with meaning *v.* to fill something with a particular quality, feeling, or influence; to imbue
269. or_____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
270. f__e away almost completely *v.* to vanish; to fade away; to lose color; to lose freshness
271. em___e as a butterfly *v.* to move out of or away from something and become visible
272. digital cu_____cy *n.* a system of money in general use in a particular country
273. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
274. in___e with spirit *v.* to fill something with a particular quality, feeling, or influence; to imbue
275. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
276. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 266. prediction, 267. structure, 268. infuse, 269. organic, 270. fade, 271. emerge, 272. currency, 273. universe, 274. infuse, 275. remarkable, 276. structure

277. de___d against a threat *v.* to protect someone or something from attack, criticism, danger, etc.
278. fa___w period *adj.* describing land that is unplanted or uncultivated; describing a period of rest or inactivity, particularly about land being left to rest
279. theoretical ph_____st *n.* a scientist who specializes in the field of physics
280. for_____yde odor *n.* a colorless, flammable liquid with a strong, pungent smell used as a preservative and in the manufacture of various products
281. ce_____te Christmas *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
282. debt-to-income ra__o *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
283. rem_____le achievement *adj.* worthy of attention because unusual or special
284. at_____t customers *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
285. gr_____te degree program *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
286. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good

ANSWERS: 277. defend, 278. fallow, 279. physicist, 280. formaldehyde, 281. celebrate, 282. ratio, 283. remarkable, 284. attract, 285. graduate, 286. tremendous

287. two-ph__e structure *n.* any stage in a series of events, change, or development
288. colorless li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
289. make ast_____ng gains *adj.* surprising or shocking; difficult to believe
290. my friend's cha_____tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
291. imp_____le story *adj.* not likely to happen or be true; unlikely; having a low probability or chance of occurring
292. algebraic ine_____ty *n.* the unfairness of a society in which some people have more opportunity, money, etc. than others; (mathematics) relation between two values when they are different
293. t_r hill *n.* a peak or rocky outcrop on a hill or mountain; a high, craggy hill or rocky mountain
294. nuclear ph_____s *n.* the science of matter and energy and their interactions
295. b__e array *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
296. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 287. phase, 288. liquid, 289. astonishing, 290. characteristic, 291. improbable, 292. inequality, 293. tor, 294. physics, 295. byte, 296. universe

297. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
298. ind_____us student *adj.* hardworking, diligent, and persistent in effort
299. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
300. de___t from the faith *v.* to go away or leave, especially to start a journey
301. inc_____le amount *adj.* unbelievable; enormous
302. a real estate in_____or *n.* someone who puts money or capital into something to gain financial returns
303. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
304. int_____nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
305. a film f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
306. the h_m of a dress *n.* the edge or border of a piece of cloth, typically sewn to prevent fraying or unraveling; a small margin or border around something; (verb) to fold the edge of a piece of fabric and sew it down to create a neat and secure finish
307. as_____le your colleagues *v.* to collect in one place as a single group
308. pe_____ve a threat *v.* to become aware or conscious of something through the senses

ANSWERS: 297. biology, 298. industrious, 299. molecule, 300. depart, 301. incredible, 302. investor, 303. industrious, 304. intelligent, 305. fan, 306. hem, 307. assemble, 308. perceive

309. a m_d person *adj.* insane, especially due to a mental illness; very angry
310. health po__y *n.* a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective
311. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
312. Euclidean ge____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
313. foreign po__y *n.* a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective
314. grinding gr__t *n.* grain that has been ground into flour or meal; any useful material or information that can be processed or utilized
315. artificial cr____re *n.* a living being, especially an animal
316. st____le against discrimination *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

ANSWERS: 309. mad, 310. policy, 311. decide, 312. geometry, 313. policy, 314. grist, 315. creature, 316. struggle

317. false cl__m *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
318. a remote re____ve *adj.* considered and evaluated through comparison with something else
319. the most am____g feeling *adj.* extremely surprising, especially in a way that you like or admire
320. hi____ic accomplishment *adj.* famous or significant in history, or potentially so
321. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
322. hazardous li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
323. the ex___t of the damage *n.* the point or degree or area to which something extends
324. gets m_d easily *adj.* insane, especially due to a mental illness; very angry
325. per_____nt data *adj.* continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time
326. the tr__d away from television *n.* a general direction in which something is changing or developing
327. highly-vo____le elements *adj.* likely to change rapidly or unexpectedly, or being unstable or explosive

ANSWERS: 317. claim, 318. relative, 319. amazing, 320. historic, 321. combination, 322. liquid, 323. extent, 324. mad, 325. persistent, 326. trend, 327. volatile

328. in___t capital *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
329. un_____r a potential problem *v.* to remove the cover from something; to discover something previously unseen or hidden
330. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
331. a prodigious vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
332. ill fo_____e *n.* a large amount of money or property; chance or luck as an unknown and arbitrary force affecting human affairs
333. l___e prey *v.* to tempt or persuade someone to do something
334. increase sl_____ly *adv.* in a small degree or extent; a little
335. th___t a dagger home *v.* to push or drive forcibly; to impose or insert; (noun) the force used in pushing
336. orthogonal re_____le *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
337. co_____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
338. eat or_____c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

ANSWERS: 328. invest, 329. uncover, 330. mathematics, 331. vision, 332. fortune, 333. lure, 334. slightly, 335. thrust, 336. rectangle, 337. communal, 338. organic

339. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
340. a ch____on of peace *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
341. c__t a ballot *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
342. an____y detection *n.* something or someone that deviates from what is expected or normal, often in a way that is difficult to explain or understand
343. a pilot sc____e *n.* an organized and often large-scale plan or arrangement for doing something
344. inv____le law *adj.* unable to be changed or altered; always the same or consistent, with no variation or deviation

ANSWERS: 339. molecule, 340. champion, 341. cast, 342. anomaly, 343. scheme, 344. invariable

Session 3: Fill in the Blanks

1. The aroma of freshly baked cookies was _____ to her.
adj. impossible to resist or refuse; very attractive, appealing, or compelling
2. The company released its _____ earnings report.
adj. happening every three months
3. My memory will _____ but my heart will live on.
v. to vanish; to fade away; to lose color; to lose freshness
4. The _____ inequality was unavoidable.
n. a large amount of money, property, or other things that someone or an organization owns
5. The oil price continued their downward _____.
n. a general direction in which something is changing or developing
6. The _____ to the safe was a secret.
n. a collection of things that have been combined; an assemblage of separate parts or qualities
7. The _____ of people who do not own property is politically impotent.
n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
8. The deep sea _____ was unlike anything the scientists had ever seen before.
n. a living being, especially an animal

ANSWERS: 1. irresistible, 2. quarterly, 3. fade, 4. wealth, 5. trend, 6. combination, 7. mass, 8. creature

9. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
n. a person, company, etc. to whom a debtor owes money
10. She _____ fresh herbs into the soup for added flavor.
v. to fill something with a particular quality, feeling, or influence; to imbue
11. I was amazed at the _____ of her generosity.
n. the point or degree or area to which something extends
12. A _____ babbled through the woods.
n. a small stream
13. We made _____ modifications to reflect the views of both sides.
adj. very small in degree or amount
14. The novel affected her _____ causing her to question her beliefs and values.
adv. to a great or complete degree; deeply
15. I love having a cheese and _____ platter while watching a movie.
n. a crisp, dry baked food usually made from flour and served as a snack or with soup or cheese; a person who breaks into computer systems or networks without authorization, commonly known as a hacker; a small firework that is designed to make a loud noise when ignited
16. The _____ of the triangle is located at the top point.
n. the highest point or apex of something, typically used to describe the highest point of a geometric figure such as a vertex of a triangle or a pyramid

ANSWERS: 9. creditor, 10. infused, 11. extent, 12. brook, 13. slight, 14. profoundly, 15. cracker, 16. vertex

17. He was a positive _____ and always dressed in the finest clothing.
n. a man who is excessively fastidious in his dress and manner; (adjective) very good
18. There was a baseless _____ that the company was going bankrupt.
n. a piece of unverified information of uncertain origin that is spread by word of mouth
19. This question has fascinated solar _____ for decades.
n. a physicist who studies astronomy
20. She _____ to become a successful businesswoman.
v. to have an ambition or a desire to achieve something, typically something high or great
21. The company adjusted the revenue _____.
adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
22. Exposure to high levels of _____ can irritate the eyes, nose, and throat, as well as respiratory problems and cancer.
n. a colorless, flammable liquid with a strong, pungent smell used as a preservative and in the manufacture of various products
23. The _____ bicyclist outrode all his competitors.
n. someone who has won first place in a competition; someone who fights for a specific group of people or a belief
24. Many employers hire _____ trainees to train as managers.
n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

ANSWERS: 17. dandy, 18. rumor, 19. astronomers, 20. aspired, 21. upward, 22. formaldehyde, 23. champion, 24. graduate

25. He _____ the 10th anniversary of his tenure.

- v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity

26. The _____ field was left unplanted to allow the soil to regain nutrients.

- adj.* describing land that is unplanted or uncultivated; describing a period of rest or inactivity, particularly about land being left to rest

27. The Chinese people have accomplished several _____ feats.

- adj.* famous or significant in history, or potentially so

28. The mathematician studied the _____ of different shapes and spaces.

- n.* a branch of mathematics that deals with the properties of space that are preserved under continuous transformations, such as stretching, bending, and twisting, without tearing or gluing

29. These results muddied the _____.

- n.* the act of predicting the future by reasoning; a statement made about the future

30. Both parties are now entirely ideologically _____.

- v.* to put or arrange two or more things in a straight line or to form a straight line

31. This artwork is _____ of her work.

- adj.* having the usual characteristics or traits of a specific group of things

32. This bar _____ shows sales over the past five years.

- n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

ANSWERS: 25. celebrated, 26. fallow, 27. historic, 28. topology, 29. prediction, 30. aligned, 31. typical, 32. graph

33. The use of _____ as a chemical weapon is prohibited under international law.
- n.* a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison
34. The _____ used in this country is the Euro.
- n.* a system of money in general use in a particular country
35. Bananas have their _____ taste and odor.
- n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
36. I need to _____ all of my notes into a manageable summary for my presentation.
- v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
37. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
38. Driving is difficult for me because of my poor _____.
- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
39. She wore a _____ of pearls around her neck.
- n.* long, thin material used for tying things together, composed of several twisted threads
40. The lawyer's _____ for the case was \$10,000.
- n.* a sum of money charged for a particular service

ANSWERS: 33. cyanide, 34. currency, 35. characteristic, 36. condense, 37. analyze, 38. vision, 39. string, 40. fee

41. The living room had a _____ coffee table in the center of it.
n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
42. This evidence supports the big-bang _____.
n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
43. Gandhi had an _____ zeal for nonviolence.
adj. perfect or complete or to the most considerable degree possible
44. This accident was something that happened _____.
adv. in an essential manner; in such a way as could not be otherwise
45. It is _____ that we will find a solution to this problem overnight.
adj. not likely to happen or be true; unlikely; having a low probability or chance of occurring
46. The _____ of the earth is divided into several layers including the crust, mantle, and core.
n. a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
47. The _____ smile on his face made him well-liked by everyone.
adj. unable to be changed or altered; always the same or consistent, with no variation or deviation
48. We had an excellent view of the surrounding landscape from the top of the granite _____.
n. a peak or rocky outcrop on a hill or mountain; a high, craggy hill or rocky mountain

ANSWERS: 41. rectangle-shaped, 42. hypothesis, 43. absolute, 44. necessarily, 45. improbable, 46. sphere, 47. invariable, 48. tor

49. The _____ rainstorm caused the collapse of the corral.
adj. not anticipated or regarded as likely to happen
50. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
51. The ignition of _____ gas in the plant killed five employees.
n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
52. The best way to _____ financial risks is to diversify your portfolio.
n. a fence formed by a line of bushes or shrubs; (verb) limit or avoid something such as duties, issues, and questions by conditions or exceptions
53. The new washing machine is much more _____ than the old one.
adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
54. He was exhausted and _____ into bed as soon as he got home.
v. to move in a particular direction by turning over and over or from side to side
55. The _____ of artificial intelligence is rapidly advancing.
n. a specialized area of study within a particular field of study
56. During colonial eras, new migratory patterns _____.
v. to move out of or away from something and become visible
57. The patient's vital signs are _____ indicating a stable condition.
adj. firmly fixed, supported, or balanced; not shaking or moving

ANSWERS: 49. unexpected, 50. biology, 51. methane, 52. hedge, 53. efficient, 54. rolled, 55. subfield, 56. emerged, 57. steady,

58. The _____ pattern on the fence allowed the vines to climb up and create a natural privacy screen.
- n.* an arrangement of points or particles in a regular, repeating pattern in two or three dimensions; a structure consisting of an ornamental design made of strips of wood or metal
59. He was known to be very _____ and would often work late into the night.
- adj.* hardworking, diligent, and persistent in effort
60. The ____ length of her dress was perfect for the evening event.
- n.* the edge or border of a piece of cloth, typically sewn to prevent fraying or unraveling; a small margin or border around something; (verb) to fold the edge of a piece of fabric and sew it down to create a neat and secure finish
61. The government _____ regulated the country's food and drug safety standards.
- n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action
62. To find drunk drivers, police conduct _____ tests.
- adj.* made, done, or happening without method, conscious decision, or any regular pattern
63. The building's _____ system includes cameras, alarms, and security guards.
- n.* the state of being free from danger, risk, or harm; measures taken to protect against threats or attacks; a financial asset, such as a stock or bond that derives value exclusively from the ownership interest or claim to a particular underlying asset or obligation
64. The Pythagorean theorem is used to calculate the length of the sides of a right _____.
- n.* a three-sided polygon with three angles; something that has three sides or parts

ANSWERS: 58. lattice, 59. industrious, 60. hem, 61. agency, 62. random, 63. security, 64. triangle

65. Her response revealed _____ idiocy.

adj. unbelievable; enormous

66. The _____ scent of the old book filled the air of the dusty library.

adj. having a strong, earthy smell that is often reminiscent of musk or moss

67. The minority _____ believed in a set of unconventional religious practices.

n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

68. The _____ is about 13.8 billion years old.

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

69. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

70. The sudden drop in the stock market was an _____ that puzzled many investors.

n. something or someone that deviates from what is expected or normal, often in a way that is difficult to explain or understand

71. The _____ surrounding the disappearance of the traveler has yet to be solved by authorities.

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

72. This region has many _____ offering higher education.

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

ANSWERS: 65. incredible, 66. musky, 67. sect, 68. universe, 69. physics, 70. anomaly, 71. mystery, 72. institutes

73. The president began to _____ an army.

v. to collect in one place as a single group

74. _____ robots that can cooperate with humans have limited motor output for safety.

adj. having the capacity for thought and reason, especially to a high degree

75. The _____ of water to sugar in the recipe is 1:2.

n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal

76. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

77. The computer hard drive had plenty of storage space but was running low on available _____.

n. a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

78. She volunteers at a local _____ every weekend to help those in need.

n. an organization that helps people in need, especially by providing food, shelter, or money; a kindly and sympathetic attitude toward people

79. Numerous great professional sports _____ have come from this city.

n. a natural ability to be good at something; someone who has a natural ability to be good at something

80. The young musician quickly became a _____ in the music world with their debut album.

n. an exceptional person, particularly in a particular field or activity; a person who exhibits prodigious talent or ability, often at a young age

ANSWERS: 73. assemble, 74. Intelligent, 75. ratio, 76. relatives, 77. bytes, 78. charity, 79. talents, 80. phenom

81. I'm a big ____ of French food.

- n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

82. They carefully executed the well-planned _____ they had prepared over the years.

- n.* an organized and often large-scale plan or arrangement for doing something

83. He continued his investigation and soon _____ another crime.

- v.* to remove the cover from something; to discover something previously unseen or hidden

84. We _____ before the temperature fell below zero.

- v.* to go away or leave, especially to start a journey

85. The government should view children as national assets and actively _____ in them.

- v.* to put money, effort, time, etc. into something to make a profit or achieve a result

86. This container has a _____ of 10 cubic meters.

- n.* the amount of space occupied by an object or substance; the magnitude of sound

87. The _____ organization donated millions of dollars to fund medical research.

- adj.* characterized by a desire to promote the welfare of others, especially by donating money or providing charitable aid; of or relating to the practice of philanthropy

ANSWERS: 81. fan, 82. scheme, 83. uncovered, 84. departed, 85. invest, 86. volume, 87. philanthropic

88. The sponge takes up the _____ well.
- n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
89. There are various hypotheses concerning the _____ of life.
- n.* the first existence or beginning of something
90. The mathematician pioneered fractal _____.
- n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
91. He wants to _____ ownership of the abandoned property.
- v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
92. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
93. The shape of the DNA _____ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
94. The kidney is an _____ component of the body.
- adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
95. The abandoned building was a _____ of the city's past, with nothing left but memories.
- n.* a trace, mark, or evidence of something that once existed but has now disappeared or diminished

ANSWERS: 88. liquid, 89. origin, 90. geometry, 91. claim, 92. improvisation, 93. molecule, 94. organic, 95. vestige

96. The _____ government announced new regulations to protect the environment.
adj. relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level
97. She mixed flour, yeast, sugar, and water to make _____ for the bread.
n. a mixture of flour, liquid, and other ingredients, typically used to make bread, pastry, or pasta
98. Folk music is now experiencing a _____.
n. a new growth in activity or enthusiasm in anything, particularly art, literature, or music
99. The team's _____ improved after winning the championship.
n. the emotional or mental state of a person or group, especially in relation to confidence, enthusiasm, and determination
100. He got an electric _____ at work.
n. a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
101. The country experienced a _____ increase in population.
adj. happening slowly over a long period of time or distance; not steep or abrupt
102. He found _____ in the works of his favorite authors.
n. something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
103. The era of the industrial revolution was a crucial _____ of history.
n. any stage in a series of events, change, or development

ANSWERS: 96. federal, 97. dough, 98. renaissance, 99. morale, 100. shock, 101. gradual, 102. inspiration, 103. phase

104. The government announced a policy to control the rise in _____ prices.
n. a product or a raw material that can be traded, bought, or sold
105. It would be _____ for me to expect you to work overtime without any extra compensation.
adj. not fair, sensible, or likely to be true
106. Their relationship was _____ and prone to sudden outbursts of anger.
adj. likely to change rapidly or unexpectedly, or being unstable or explosive
107. She couldn't _____ whether to order the pizza or the pasta for dinner.
v. to make up someone's mind about something; to come to a conclusion or judgment after considering options
108. The _____ of the coffee was rich and full-bodied.
n. the taste sensation produced by a substance in the mouth
109. Creativity and _____ are often brought about by extreme concentration.
n. the quality of inventing things or solving problems in clever new ways
110. He could not _____ against temptation.
v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
111. The police _____ believed this explanation was plausible.
adv. based on what you have heard or read
112. The exam was _____ tricky for everyone.
adv. in a way that causes amazement or wonder

ANSWERS: 104. commodity, 105. unreasonable, 106. volatile, 107. decide, 108. flavor, 109. ingenuity, 110. struggle, 111. apparently, 112. surprisingly

113. The golfer recorded an _____ distance.

adj. extremely surprising, especially in a way that you like or admire

114. Overall _____ are approximately 400x200mm.

n. a measurable extent of a particular kind, such as width, height, or length

115. He was ____ with joy to see the results.

adj. insane, especially due to a mental illness; very angry

116. We should always be prepared to _____ talented recruits.

v. to give somebody a job

117. Her research team made an important _____.

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

118. The news of her sudden death was _____ to everyone who knew her.

adj. surprising or shocking; difficult to believe

119. The company's new _____ on remote work has made it a more inclusive workplace.

n. a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective

120. Mercury is the closest _____ to the sun.

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 113. amazing, 114. dimensions, 115. mad, 116. hire, 117. discovery, 118. astonishing, 119. policy, 120. planet

121. He was a visiting _____ professor at the University of Tokyo.
n. a science that deals with the history of the earth as recorded in rocks
122. The airport offers five _____ access routes.
adj. useful, helpful, or quick to do
123. The Chief editor checks all _____ for plagiarism with software.
n. a short piece of writing on a particular topic, usually written by a student as a part of a course of study
124. I'm strongly _____ to that plan.
adj. being completely different from something or disagreeing strongly with something
125. The hiker had a difficult time navigating the _____ mountain trail.
adj. full of twists and turns; not direct or straightforward; excessively complicated
126. This business yields little _____.
n. money that is earned in business or by selling things after deducting the costs involved
127. The Ottoman Empire _____ for over five centuries.
v. to grow or develop vigorously or successfully
128. He moved his body _____ to the left.
adv. in a small degree or extent; a little
129. This accident _____ a dark shadow over their lives.
v. to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

ANSWERS: 121. geology, 122. convenient, 123. essays, 124. opposed, 125. tortuous, 126. profit, 127. flourished, 128. slightly, 129. cast

130. The new service helped _____ net income by 10%.

v. to improve, raise, or increase something

131. My grandfather's health has declined, and he is now quite _____.

adj. weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength

132. The _____ fireworks display was the highlight of the festival.

adj. striking or impressive to look at or in performance or achievement

133. The findings of the experiment were both _____ and unexpected.

adj. causing a lot of interest or excitement

134. One bad apple spoils the whole _____.

n. a grouping of several similar things which are growing or fastened together

135. Australia is widely _____ as having low levels of corruption.

v. to become aware or conscious of something through the senses

136. The _____ of Japan is known for its unique culture and advanced technology.

n. a large organized community of people living in a particular country or region and having a particular culture

137. He has a flair for _____.

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

138. Institutional _____ refrained from buying stocks amid the booming economy.

n. someone who puts money or capital into something to gain financial returns

ANSWERS: 130. boost, 131. frail, 132. spectacular, 133. exciting, 134. bunch, 135. perceived, 136. nation, 137. mathematics, 138. investors

139. On three sides, mountains _____ the settlement.

v. to be all around something or somebody

140. The engine _____ the rocket into space.

v. to push or drive forcibly; to impose or insert; (noun) the force used in pushing

141. Scientists have predicted that the universe will end in a _____ where all matter will collapse into an infinitely dense point.

n. (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind

142. _____ elections were held in several European countries.

adj. belonging to or used by a group rather than individuals; for common use

143. Many people see the _____ of traveling as an opportunity to experience new cultures and broaden their horizons.

n. the positive aspect or potential of something; the upper side of something

144. Capitalism guarantees the right of ownership of personal _____.

n. a large amount of money or property; chance or luck as an unknown and arbitrary force affecting human affairs

145. Human behavior has _____ characteristics.

adj. forming an essential base or core from which everything else develops or is affected

146. They study the _____ of the universe.

n. a gradual process of transformation of living things

ANSWERS: 139. surround, 140. thrust, 141. singularity, 142. Communal, 143. upside, 144. fortune, 145. fundamental, 146. evolution

147. The mill ground the wheat into a _____ to make flour.

n. grain that has been ground into flour or meal; any useful material or information that can be processed or utilized

148. The museum offers a variety of _____ programs for children and adults.

adj. relating to education or providing knowledge or instruction

149. Einstein was an outstanding and famous _____ of the 20th century.

n. a scientist who specializes in the field of physics

150. The salesperson used a special offer to _____ customers into buying the product.

v. to tempt or persuade someone to do something

151. Despite the setbacks, he remained _____ in his pursuit of his dreams.

adj. continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time

152. In a _____ system, the outcome is uncertain and can vary based on chance.

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

153. International law allows each nation to _____ itself when its rights and interests are illegally violated.

v. to protect someone or something from attack, criticism, danger, etc.

154. The garden had a complex _____ shape with many angles and corners.

n. a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)

ANSWERS: 147. grist, 148. educational, 149. physicist, 150. lure, 151. persistent, 152. probabilistic, 153. defend, 154. polygon

155. We can evaluate the performance of an _____ in terms of computation time.
- n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
156. The government is eager to _____ international investment.
- v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
157. It is important to _____ safety procedures in the workplace to prevent accidents.
- v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
158. There are several causes of economic _____ within societies.
- n.* the unfairness of a society in which some people have more opportunity, money, etc. than others; (mathematics) relation between two values when they are different
159. I don't want to _____ for second best.
- v.* to reach an agreement of disagreement
160. His classmates were laboring with advanced _____.
- n.* a type of mathematics in which signs and letters represent numbers
161. Hunters use a whistle that makes the ____ sound to lure stags.
- n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

ANSWERS: 155. algorithm, 156. attract, 157. observe, 158. inequality, 159. settle, 160. algebra, 161. doe

162. The organizational _____ of start-ups is often flat and straightforward.

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

163. You can easily _____ seats over the telephone.

v. to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance

164. It's notoriously challenging to _____ birth rates.

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

165. She gently _____ the baby in her arms until it fell asleep.

v. to bounce or rock a small child or baby on one's knee or in one's arms as an act of affection or to soothe them

166. The company decided to _____ its proposal due to public opposition.

v. to remove or take back something; to stop participating in something

167. A significant amount of _____ is required to be a teacher.

n. the reason or enthusiasm for acting or behaving in a particular way

168. We had a _____ time yesterday.

adj. very great in degree or extent or amount or impact; extremely good

169. That candidate does not have _____ means to win an election with certainty.

adj. adequate; enough for a particular purpose or requirement

ANSWERS: 162. structure, 163. reserve, 164. predict, 165. dandled, 166. withdraw, 167. motivation, 168. tremendous, 169. sufficient

170. The _____ on my bike broke, leaving me stranded.

n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

171. The election was a _____ success for the Whigs.

adj. worthy of attention because unusual or special

172. The museum houses a _____ collection of Celtic artifacts.

adj. extremely interesting

ANSWERS: 170. chain, 171. remarkable, 172. fascinating