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Michael Hansmeyer: Building unimaginable shapes | TED Talk

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

All Words

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Session 1: Word List

architect

n. a person whose job is to design plans to be used in making something, such as buildings

synonym: creator, designer, planner

(1) landscape **architect**, (2) **architect** of the peace accord

The building **architect** tried to build the house above the tree.

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.

refer

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym: cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

bias

n. a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment

synonym: inclination, partiality, predilection

(1) **bias** against a big company, (2) have a **bias** toward

socialism

She researched gender **bias** in politics.

preconceived

adj. (of an idea or opinion) formed beforehand, especially without evidence for its truth or usefulness

(1) a **preconceived** notion, (2) **preconceived** opinions

We should start a discussion from scratch with no **preconceived** ideas.

unseen

adj. not seen or noticed; not perceived

synonym: invisible, hidden, undercover

(1) **unseen** danger, (2) an **unseen** force

The consequences of the pandemic remain **unseen** as scientists continue to research the virus.

intrigue

v. to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone

synonym: attract, captivate, charm

(1) **intrigue** him, (2) **intrigue** against his rival

The artist's innovative style of work **intrigues** me.

delight

n. a feeling of great pleasure or happiness

synonym: pleasure, joy, satisfaction

(1) a tremor of **delight**, (2) with **delight**

The **delight** on the child's faces when they received the toy was priceless.

propose

v. to make a proposal, declare a plan for something

synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes

I want to **propose** a toast in honor of our longstanding relationship.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym:

mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments
He is very popular at school because he can **mimic** all the teachers' accents.

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.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**
The **process** for applying for a visa can be lengthy and complicated.

abstract

adj. based on general ideas, feelings, or qualities and not on any a physical or concrete existence

synonym : conceptual, theoretical, ideational

(1) an **abstract** noun, (2) **abstract** science

The invention of the camera triggered the development of **abstract** painting.

morphogenesis

n. the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms

synonym : development, growth, formation

(1) **morphogenesis** process, (2) cellular **morphogenesis**
Defects in **morphogenesis** can lead to developmental abnormalities and congenital disabilities.

split

v. to divide, or to make something divide into two or more parts, especially along a particular line

synonym: break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

identical

adj. being the exact same one

synonym: duplicate, exact, analogous

(1) pair of **identical** twins, (2) an **identical** equation

Infant formulas are nutritionally almost **identical** to a mother's breast milk.

distinct

adj. noticeable from something else of a similar type

synonym: different, special, characteristic

(1) **distinct** difference, (2) **distinct** from each other

It is essential to keep these two issues **distinct**.

asymmetric

adj. lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement

synonym: uneven, lopsided, unbalanced

(1) **asymmetric** warfare, (2) **asymmetric** information

The **asymmetric** design of the building made it stand out in the city skyline.

division

n. the act or outcome of splitting into separate parts; a critical organizational unit or sector

synonym: branch, separator, section

(1) cellular **division**, (2) **division** chief

Which **division** of the company do you work in?

simplify

v. to make something more straightforward, more understandable, or easier to do

synonym: streamline, clarify, elucidate

(1) **simplify** my life, (2) **simplify** the process

Please **simplify** your explanation for the children.

divide

v. to separate or cause to separate into parts or groups
synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

differentiate

v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative

synonym: discern, distinguish, separate

(1) **differentiate** between fact and fiction, (2) **differentiate** a function

The teacher asked the students to **differentiate** between the two similar species of birds.

astound

v. to surprise or shock someone with wonder very much
synonym: amaze, astonish, surprise

(1) **astound** everyone, (2) **astound** the viewer

The final result was nothing short of **astounding**.

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.

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.

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.

suddenly

adv. quickly and unexpectedly

synonym: abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym: fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

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.

cube

n. a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times

synonym: block, square, cell

(1) **cube** root, (2) ice **cube**

I cut the cheese into small **cubes** for the salad.

instance

n. a particular example or single occurrence of something

synonym: example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

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.

exert

v. to put forth effort; to put into action; to bring into play

synonym : exert, apply, use

(1) **exert** control, (2) **exert** influence

He **exerted** himself to lift the heavyweight.

specification

n. a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job

synonym : description, requirement, guideline

(1) functional **specification**, (2) engineering **specification**

The project's **specifications** outlined the goals and requirements for the team to complete.

essentially

adv. relating to the essential features or concepts of anything

synonym : fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same

Essentially, a society is an organism.

sculpt

v. to create a work of art by carving, casting, or other shaping techniques

synonym : carve, mold, shape

(1) **sculpt** an image, (2) **sculpt** prototype

He spent hours every day **sculpting** figures out of clay.

constraint

n. a limit or restriction on something, such as an action, behavior, or thought

synonym : limitation, restriction, bound

(1) **constraint** on business activity, (2) strict time

constraints

The budget **constraint** forced them to make difficult decisions.

intersect

v. to meet or cross one another

synonym: cross, bisect, cut

(1) **intersect** at a point, (2) railways **intersect** the country
Her multidisciplinary works **intersect** music and picture with writing.

stretch

v. to make or be capable of making anything longer or broader without hurting or breaking

synonym: lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story
Some herds have been observed to **stretch** hundreds of kilometers.

expound

v. to explain or clarify something in detail or with great care; to interpret or elucidate

synonym: explain, clarify, interpret

(1) **expound** theory, (2) **expound** on the subject
The professor spent hours **expounding** on the complexities of quantum physics.

scope

n. the range of one's perceptions, thoughts, or actions, or a subject that

synonym: content, coverage, extent

(1) **scope** of a project, (2) have broad **scope**
The **scope** of human thought is diverse.

corresponding

adj. similar to, connected with, or accompanying something, especially in position or purpose

synonym: matching, equivalent, analogous

(1) find a **corresponding** lack, (2) the **corresponding** word in Spanish
The **corresponding** number on the dial was 3.

geometric

adj. relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)

synonym : mathematical, symmetrical, regular

(1) a **geometric** proof, (2) **geometric** pattern

The **geometric** shapes and patterns in the artwork are visually stunning.

equivalent

n. having the same value, quality, meaning, purpose, etc.

synonym : equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning

The European Central Bank is Europe's **equivalent** of the Federal Reserve.

visible

adj. capable of being seen; or open to easy view

synonym : clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

plot

n. a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

synonym : scheme, plan, design

(1) **plot** twist, (2) **plot** a revolution

The **plot** of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.

curvature

n. the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

synonym : bend, arch, bow

(1) the degree of **curvature**, (2) spinal **curvature**

The **curvature** of the earth can be seen from space.

instantly

adv. immediately

synonym : immediately, right away, directly

(1) **instantly** cope with, (2) be killed **instantly**

I remembered that person **instantly** and never forgot.

articulate

v. to express oneself clearly and effectively in spoken or written language

synonym: express, state, utter

(1) **articulate** his position, (2) eloquently **articulate**

She was able to **articulate** her argument in the debate clearly.

property

n. a thing or things that belong to someone

synonym: belongings, possessions, equity

(1) a man of **property**, (2) chemical **property**

He stood to inherit a million-dollar **property**.

elaborate

adj. containing a lot of carefully prepared and organized or many complicated and detailed parts

synonym: detailed, intricate, complicated

(1) an **elaborate** hat, (2) **elaborate** Ponzi scheme

He proposed an **elaborate** program of public works.

minimal

adj. tiny in amount; the least possible

synonym: tiniest, essential, minimum

(1) **minimal** effort, (2) **minimal** amount

The process was carried out at **minimal** cost.

architecture

n. the art and science of designing and constructing buildings

synonym: design, structure, layout

(1) **architecture** design, (2) classic **architecture**

The city is known for its impressive **architecture** and beautiful old buildings.

column

n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument

synonym: line, pillar, cue

(1) the spinal **column**, (2) a **column** of water
The newspaper devoted several **columns** to the affair.

architectural

adj. of or relating to the design and construction of buildings and other structures and the features and style of such structures

synonym: structural, building, constructive

(1) study **architectural** engineering, (2) beautiful **architectural** landmarks

The **architectural** style of the building was a mix of modern and traditional.

archetype

n. a very typical example of a certain person or thing; a recurrent symbol or motif in literature, art, or mythology that represents a universal pattern of human nature

synonym: prototype, model, paradigm

(1) **archetype** symbol, (2) feminine **archetype**

The hero's journey is a common **archetype** in many myths and stories.

cylinder

n. a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

(1) a six- **cylinder** engine, (2) a ventilation **cylinder**

The gas was trapped inside the **cylinders** under high pressure.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym : develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym : move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym : achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

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**.

threshold

n. the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation

synonym : anteroom, brink, verge

(1) the **threshold** between rooms, (2) high pain **threshold**

She's on the **threshold** of adulthood.

tradition

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

synonym : custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

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.

elevation

n. the height of something above sea level or above the ground; the event of something being raised upward

synonym : height, altitude, rise

(1) at an **elevation** of 1000 feet, (2) **elevation** in rank

The **elevation** of the mountain made it difficult to breathe.

imaginable

adj. capable of being imagined

synonym : conceivable, plausible, possible

(1) easily **imaginable**, (2) worst **imaginable** case

This is the only **imaginable** strategy.

envision

v. to imagine or expect what a situation will be like in the future

synonym : anticipate, foresee, picture

(1) **envision** the future, (2) **envision** the project's success
We cannot **envision** her as President.

deterministic

adj. characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

synonym: predictable, predetermined, certain

(1) **deterministic** approach, (2) **deterministic** system

The **deterministic** algorithm always produces the same result for a given input.

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.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

entirely

adv. completely

synonym: completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame

Later, his claim was found to be **entirely** false.

predictable

adj. capable of being known, seen or declared in advance

synonym: foreseeable, expectable, likely

(1) **predictable** pattern, (2) in a **predictable** manner

The economy becomes more volatile and less **predictable**.

possibility

n. a chance that something may happen or be true
synonym : chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

variant

n. something that is slightly different from others of the same type

synonym : variation, modification, variance

(1) **variant** types of pigeon, (2) a **variant** of the same word

The first **variant** of the virus appeared in less than a month.

parallel

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

synonym : aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing

He walked a road **parallel** to the railroad.

cultivate

v. to prepare and foster land for growing crops or plants

synonym : boost, foster, nurture

(1) **cultivate** a field, (2) **cultivate** relationships

University is a great place to **cultivate** our minds and expertise.

analogy

n. a comparison between similar things that have similar aspects, often used to help explain a principle or concept

synonym : metaphor, comparison, parallel

(1) draw **analogy**, (2) historical **analogy**

Some kinds of machine learning models show an **analogy** to how people learn.

permutation

n. the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of

elements or objects

synonym: variation, transformation, alteration

(1) **permutation** formula, (2) **permutation** test

Scientists study the **permutations** of chemical elements and compounds to better understand their properties and potential uses.

breed

v. to keep animals for producing offspring in a regulated manner

synonym: raise, multiply, reproduce

(1) **breed** horses, (2) **breed** suspicion

This animal **breeds** in northern latitudes.

orchestrate

v. to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music

synonym: plan, coordinate, arrange

(1) **orchestrate** a takeover, (2) **orchestrate** the political reinstatement

He carefully **orchestrated** the details of his business plan.

unfavorable

adj. not advantageous or beneficial; opposed to one's interests or desires

synonym: adverse, negative, hostile

(1) **unfavorable** situation, (2) **unfavorable** reviews

The unforeseen weather change resulted in an **unfavorable** outcome for the outdoor event.

trade-off

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

synonym: compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the task.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym : determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

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.

slice

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

synonym : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin

The children complained because one **slice** of cake was slightly larger than the other.

stack

n. a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated

synonym : accumulation, heap, pile

(1) high **stack**, (2) a large **stack** of paper

The earthquake caused a **stack** of lumber to crumble noisily.

X-ray

n. a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

synonym : roentgenogram, photon radiography

(1) **X-ray** scan, (2) an **X-ray** of arteries

The doctor ordered an **X-ray** to see if there was any damage to the bones.

unbeknownst

adv. without the knowledge or awareness of someone; without someone's knowledge or participation

synonym : secretly, covertly

(1) **unbeknownst** to me, (2) **unbeknownst** to any of us
Unbeknownst to the family, the treasure had been hidden in the attic for years.

calculated

adj. done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance

synonym : premeditated, willful, deliberate

(1) **calculated** bankruptcy, (2) **calculated** crime
The company made a **calculated** decision to invest in new technology.

laser

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

synonym : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**
The company holds patents on core components of **laser** jet printers.

segment

n. a part or section of something; a distinct group within a larger whole

synonym : section, part, division

(1) **segment** analysis, (2) market **segment**
The report divided the data into **segments** based on age, gender, and income level.

individually

adv. separately or apart from others

synonym : separately, one by one, independently

(1) answer questions **individually**, (2) **individually**

designed product

Each department has done its product costing **individually**.

render

v. to bring someone or something into a particular state; to provide something such as service, help, etc.

synonym : deliver, give, provide

(1) **render** an assessment, (2) **render** the contract void

The jury must **render** a decision on this complex case.

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.

intricacy

n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements

synonym : complexity, intricateness, elaboration

(1) the **intricacy** of the design, (2) legal **intricacy**

The clockwork mechanism of the antique watch showed incredible **intricacy**.

preserve

v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

synonym : conserve, care for, maintain

(1) **preserve** my strength, (2) **preserve** a country's heritage

They worked hard to **preserve** the nature of their native lands.

labor

n. productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal

synonym : toil, toil, donkeywork

(1) seasonal **labor**, (2) manual **labor**

In several countries, child **labor** is a serious social problem.

intensive

adj. involving a lot of work or activity in a short time

synonym : thorough, comprehensive, in-depth

(1) **intensive** agriculture, (2) **intensive** care

The construction industry is labor **intensive**, although it has been somewhat automated by introducing large machinery.

disconnect

v. to unfasten or disjoin something, especially to break the connection between a supply of gas, water, or electricity and a piece of equipment

synonym : unplug, detach, take apart

(1) **disconnect** a plug, (2) **disconnect** the water supply

She finally decided to **disconnect** herself from the company.

virtual

adj. being actually such in almost every respect; existing in essence or effect though not in actual fact

synonym : practical

(1) a **virtual** image, (2) trading of **virtual** currencies

She is the **virtual** president of the company.

ultimate

adj. furthest or highest in degree or order

synonym : highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

calculate

v. to judge or find out the amount or number of something by using mathematics

synonym : compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score

He couldn't **calculate** the actual value of the artwork.

weigh

v. to have a particular weight; to carefully evaluate things before making a conclusion

synonym : consider, cogitate, count

(1) **weigh** heavily on stock prices, (2) **weigh** a cargo
The baby **weighs** 1 pound 3 oz.

auditorium

n. a room or building used for concerts, plays, or other public performances

synonym: hall, theater, amphitheater

(1) open-air **auditorium**, (2) **auditorium** annex

The **auditorium** seating was filled with people waiting for the concert to begin.

increasingly

adv. more and more

synonym: more and more, progressively

(1) **increasingly** become common, (2) face **increasingly** complicated challenges

Our company found it **increasingly** difficult to keep up with the competition.

technological

adj. based on scientific and industrial progress

synonym: specialized, technical

(1) **technological** advancement, (2) **technological** policy

Technological advances have disrupted many industries.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

horizon

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

synonym: skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon**

As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

steel

n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure

synonym : iron

(1) magnetic **steel**, (2) **steel** beam

This bridge is the third largest **steel** bridge in the world.

structural

adj. associated with the way on construction or organization of anything

synonym : architectural, basic, anatomical

(1) **structural** analyses, (2) **structural** reorganization

The earthquake resulted in significant **structural** destruction.

hybrid

adj. composed of different elements or mixed characters

synonym : blended, mixed, combined

(1) new **hybrid** system, (2) an interspecific **hybrid**

The mule is a **hybrid** between a male donkey and a female horse.

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

illusion

n. a false idea or belief, especially about somebody or about a situation

synonym : delusion, fallacy, magic trick

(1) optical **illusion**, (2) the **illusion** of being in the forest

He could no longer tell the difference between **illusion** and reality.

glimpse

n. a brief or partial view; the act of seeing something or someone for a very short time or only partly

synonym : glance, peek, sighting

(1) a momentary **glimpse**, (2) passing **glimpse**

Our team caught a **glimpse** of the world-class technique in this game.

await

v. to wait or stay ready for something; to expect or anticipate something

synonym : expect, wait for, anticipate

(1) **await** your reply, (2) **await** a decision

We **await** the results of the election with bated breath.

inspire

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

synonym : boost, encourage, enlighten

(1) **inspire** a feeling of curiosity, (2) **inspire** him to write a novel

The unique style of this martial arts **inspired** many action film producers.

countless

adj. too numerous to be counted or very many

synonym : innumerable, myriad, numerous

(1) **countless** hours, (2) answer **countless** questions

There are **countless** methods for dealing with stress.

Session 2: Spelling

1. tr_____ff problem *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
2. pr_____ve a country's heritage *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
3. rem_____le achievement *adj.* worthy of attention because unusual or special
4. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
5. pos_____ty of a major earthquake *n.* a chance that something may happen or be true
6. die su_____ly *adv.* quickly and unexpectedly
7. la__r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
8. a vi_____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
9. di_____on chief *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
10. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

ANSWERS: 1. trade-off, 2. preserve, 3. remarkable, 4. feat, 5. possibility, 6. suddenly, 7. laser, 8. virtual, 9. division, 10. slice

11. si____fy the process *v.* to make something more straightforward, more understandable, or easier to do
12. cal_____ed bankruptcy *adj.* done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance
13. magnetic st__l *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
14. st__l beam *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
15. cu_____te a field *v.* to prepare and foster land for growing crops or plants
16. sc__e of a project *n.* the range of one's perceptions, thoughts, or actions, or a subject that
17. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
18. optical il_____on *n.* a false idea or belief, especially about somebody or about a situation
19. ab_____ct science *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
20. open-air aud_____um *n.* a room or building used for concerts, plays, or other public performances

ANSWERS: 11. simplify, 12. calculated, 13. steel, 14. steel, 15. cultivate, 16. scope, 17. parallel, 18. illusion, 19. abstract, 20. auditorium

21. in_____ct at a point *v.* to meet or cross one another
22. new op_____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
23. find a cor_____ing lack *adj.* similar to, connected with, or accompanying something, especially in position or purpose
24. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
25. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
26. landscape ar_____ct *n.* a person whose job is to design plans to be used in making something, such as buildings
27. ind_____lly designed product *adv.* separately or apart from others
28. a man of pr_____ty *n.* a thing or things that belong to someone
29. dis_____ct a plug *v.* to unfasten or disjoin something, especially to break the connection between a supply of gas, water, or electricity and a piece of equipment
30. di_____ct difference *adj.* noticeable from something else of a similar type

ANSWERS: 21. intersect, 22. optical, 23. corresponding, 24. parallel, 25. mimic, 26. architect, 27. individually, 28. property, 29. disconnect, 30. distinct

31. easily ima_____le *adj.* capable of being imagined
32. high st__k *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
33. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
34. as_____d the viewer *v.* to surprise or shock someone with wonder very much
35. spinal cu_____re *n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
36. di___e money equally *v.* to separate or cause to separate into parts or groups
37. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
38. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
39. cu_____te relationships *v.* to prepare and foster land for growing crops or plants
40. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
41. new hy___d system *adj.* composed of different elements or mixed characters

ANSWERS: 31. imaginable, 32. stack, 33. experiment, 34. astound, 35. curvature, 36. divide, 37. feat, 38. dimension, 39. cultivate, 40. refer, 41. hybrid

42. study arc_____ral engineering *adj.* of or relating to the design and construction of buildings and other structures and the features and style of such structures
43. functional spe_____ion *n.* a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job
44. su_____ly attacked by an enemy *adv.* quickly and unexpectedly
45. answer questions ind_____lly *adv.* separately or apart from others
46. become ess_____ly same *adv.* relating to the essential features or concepts of anything
47. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
48. arc_____ure design *n.* the art and science of designing and constructing buildings
49. high pain th_____ld *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
50. det_____tic approach *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
51. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line

ANSWERS: 42. architectural, 43. specification, 44. suddenly, 45. individually, 46. essentially, 47. eventually, 48. architecture, 49. threshold, 50. deterministic, 51. split

52. 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
53. in_____e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
54. 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
55. in_____ue against his rival *v.* to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone
56. answer co_____ss questions *adj.* too numerous to be counted or very many
57. unf_____le situation *adj.* not advantageous or beneficial; opposed to one's interests or desires
58. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
59. racial or____n *n.* the first existence or beginning of something
60. historical an_____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
61. mor_____sis process *n.* the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms

ANSWERS: 52. structure, 53. inspire, 54. ratio, 55. intrigue, 56. countless, 57. unfavorable, 58. eventually, 59. origin, 60. analogy, 61. morphogenesis

62. in_____ue him *v.* to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone
63. at an el_____on of 1000 feet *n.* the height of something above sea level or above the ground; the event of something being raised upward
64. gene va_____on *n.* the act or state of changing; a difference or change in the way something is done, made or said
65. the spinal co____n *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
66. mi_____l amount *adj.* tiny in amount; the least possible
67. a ventilation cy_____er *n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this
68. railways in_____ct the country *v.* to meet or cross one another
69. manual la__r *n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
70. he was en_____ly to blame *adv.* completely

ANSWERS: 62. intrigue, 63. elevation, 64. variation, 65. column, 66. minimal, 67. cylinder, 68. intersect, 69. labor, 70. entirely

71. the th_____ld between rooms *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
72. si_____fy my life *v.* to make something more straightforward, more understandable, or easier to do
73. a va_____t of the same word *n.* something that is slightly different from others of the same type
74. asy_____ic warfare *adj.* lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement
75. vi_____e by X-ray *adj.* capable of being seen; or open to easy view
76. the in_____cy of the design *n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
77. environmental tr_____ff *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
78. ex__t control *v.* to put forth effort; to put into action; to bring into play
79. have broad sc__e *n.* the range of one's perceptions, thoughts, or actions, or a subject that
80. ar_____pe symbol *n.* a very typical example of a certain person or thing; a recurrent symbol or motif in literature, art, or mythology that represents a universal pattern of human nature

ANSWERS: 71. threshold, 72. simplify, 73. variant, 74. asymmetric, 75. visible, 76. intricacy, 77. trade-off, 78. exert, 79. scope, 80. archetype

81. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
82. orc_____te a takeover *v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
83. a ge_____ic proof *adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
84. strict time con_____nts *n.* a limit or restriction on something, such as an action, behavior, or thought
85. 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
86. in_____ve care *adj.* involving a lot of work or activity in a short time
87. the cor_____ing word in Spanish *adj.* similar to, connected with, or accompanying something, especially in position or purpose
88. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
89. 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
90. equ_____nt in meaning *n.* having the same value, quality, meaning, purpose, etc.

ANSWERS: 81. calculate, 82. orchestrate, 83. geometric, 84. constraint, 85. discovery, 86. intensive, 87. corresponding, 88. divide, 89. decide, 90. equivalent

91. asy_____ic information *adj.* lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement
92. orc_____te the political reinstatement *v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
93. st_____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
94. 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
95. have a b__s toward socialism *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
96. cellular di_____on *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
97. pos_____ty for growth *n.* a chance that something may happen or be true
98. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
99. c__e root *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times

ANSWERS: 91. asymmetric, 92. orchestrate, 93. stretch, 94. algorithm, 95. bias, 96. division, 97. possibility, 98. random, 99. cube

100. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
101. per_____on test *n.* the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects
102. en_____ly satisfied with the meal *adv.* completely
103. classic arc_____ure *n.* the art and science of designing and constructing buildings
104. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
105. aw__t a decision *v.* to wait or stay ready for something; to expect or anticipate something
106. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
107. un___n danger *adj.* not seen or noticed; not perceived
108. an el_____te hat *adj.* containing a lot of carefully prepared and organized or many complicated and detailed parts
109. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
110. the event ho_____n of a black hole *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

ANSWERS: 100. refer, 101. permutation, 102. entirely, 103. architecture, 104. experiment, 105. await, 106. evolve, 107. unseen, 108. elaborate, 109. algorithm, 110. horizon

111. feminine ar_____pe *n.* a very typical example of a certain person or thing; a recurrent symbol or motif in literature, art, or mythology that represents a universal pattern of human nature
112. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
113. notable in_____ce *n.* a particular example or single occurrence of something
114. the ul_____te goal in life *adj.* furthest or highest in degree or order
115. passing gl_____e *n.* a brief or partial view; the act of seeing something or someone for a very short time or only partly
116. in a pre_____le manner *adj.* capable of being known, seen or declared in advance
117. p__t a revolution *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
118. pr_____e the amendment *v.* to make a proposal, declare a plan for something
119. an un____n force *adj.* not seen or noticed; not perceived
120. ex_____d theory *v.* to explain or clarify something in detail or with great care; to interpret or elucidate

ANSWERS: 111. archetype, 112. process, 113. instance, 114. ultimate, 115. glimpse, 116. predictable, 117. plot, 118. propose, 119. unseen, 120. expound

121. in_____ve agriculture *adj.* involving a lot of work or activity in a short time
122. a large st__k of paper *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
123. a six-cy_____er engine *n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this
124. the ul_____te luxury *adj.* furthest or highest in degree or order
125. 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
126. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
127. we__h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
128. 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
129. op_____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 121. intensive, 122. stack, 123. cylinder, 124. ultimate, 125. sect, 126. dimension, 127. weigh, 128. structure, 129. optical

140. va_____on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
141. 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
142. an ab_____ct noun *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
143. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
144. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
145. en_____on the project's success *v.* to imagine or expect what a situation will be like in the future
146. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
147. ice c__e *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times

ANSWERS: 140. variation, 141. sect, 142. abstract, 143. process, 144. microscopic, 145. envision, 146. mimic, 147. cube

148. dif_____ate a function *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
149. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
150. re___r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
151. pr_____e changes *v.* to make a proposal, declare a plan for something
152. a pre_____ved notion *adj.* (of an idea or opinion) formed beforehand, especially without evidence for its truth or usefulness
153. legal in_____cy *n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
154. ex_____d on the subject *v.* to explain or clarify something in detail or with great care; to interpret or elucidate
155. engineering spe_____ion *n.* a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job
156. in_____ly cope with *adv.* immediately
157. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things

ANSWERS: 148. differentiate, 149. remarkable, 150. render, 151. propose, 152. preconceived, 153. intricacy, 154. expound, 155. specification, 156. instantly, 157. biology

158. unb_____st to me *adv.* without the knowledge or awareness of someone; without someone's knowledge or participation
159. eloquently art_____te *v.* to express oneself clearly and effectively in spoken or written language
160. a co___n of water *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
161. ex__t influence *v.* to put forth effort; to put into action; to bring into play
162. equ_____nt amounts *n.* having the same value, quality, meaning, purpose, etc.
163. as_____d everyone *v.* to surprise or shock someone with wonder very much
164. cellular mor_____sis *n.* the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms
165. unb_____st to any of us *adv.* without the knowledge or awareness of someone; without someone's knowledge or participation
166. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
167. br__d suspicion *v.* to keep animals for producing offspring in a regulated manner

ANSWERS: 158. unbeknownst, 159. articulate, 160. column, 161. exert, 162. equivalent, 163. astound, 164. morphogenesis, 165. unbeknownst, 166. biology, 167. breed

168. co_____ss hours *adj.* too numerous to be counted or very many
169. di_____ct from each other *adj.* noticeable from something else of a similar type
170. trading of vi_____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
171. el_____on in rank *n.* the height of something above sea level or above the ground; the event of something being raised upward
172. vo_____e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
173. bombs fell at ra_____m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
174. a tr_____on of a culture *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
175. an id_____al equation *adj.* being the exact same one
176. worst ima_____le case *adj.* capable of being imagined
177. pre_____le pattern *adj.* capable of being known, seen or declared in advance
178. with de_____t *n.* a feeling of great pleasure or happiness
179. str_____al reorganization *adj.* associated with the way on construction or organization of anything

ANSWERS: 168. countless, 169. distinct, 170. virtual, 171. elevation, 172. volume, 173. random, 174. tradition, 175. identical, 176. imaginable, 177. predictable, 178. delight, 179. structural

180. the degree of cu_____re *n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
181. aw__t your reply *v.* to wait or stay ready for something; to expect or anticipate something
182. or___n of information *n.* the first existence or beginning of something
183. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
184. sl__e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
185. an X-__y of arteries *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
186. con_____nt on business activity *n.* a limit or restriction on something, such as an action, behavior, or thought
187. 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
188. per_____on formula *n.* the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects

ANSWERS: 180. curvature, 181. await, 182. origin, 183. involve, 184. slice, 185. X-ray, 186. constraint, 187. discovery, 188. permutation

200. va_____t types of pigeon	<i>n.</i> something that is slightly different from others of the same type
201. se_____t analysis	<i>n.</i> a part or section of something; a distinct group within a larger whole
202. sc____t an image	<i>v.</i> to create a work of art by carving, casting, or other shaping techniques
203. a momentary gl_____e	<i>n.</i> a brief or partial view; the act of seeing something or someone for a very short time or only partly
204. seasonal la__r	<i>n.</i> productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
205. res_____on of a conflict	<i>n.</i> a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
206. the il_____on of being in the forest	<i>n.</i> a false idea or belief, especially about somebody or about a situation
207. inc_____gly become common	<i>adv.</i> more and more
208. unf_____le reviews	<i>adj.</i> not advantageous or beneficial; opposed to one's interests or desires
209. de_____p a skill	<i>v.</i> to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 200. variant, 201. segment, 202. sculpt, 203. glimpse, 204. labor, 205. resolution, 206. illusion, 207. increasingly, 208. unfavorable, 209. develop

210. business ho____n *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
211. draw an____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
212. ar____ct of the peace accord *n.* a person whose job is to design plans to be used in making something, such as buildings
213. pr____ve my strength *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
214. ge____ic pattern *adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
215. det____tic system *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
216. dis____ct the water supply *v.* to unfasten or disjoin something, especially to break the connection between a supply of gas, water, or electricity and a piece of equipment
217. cal____ed crime *adj.* done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance

ANSWERS: 210. horizon, 211. analogy, 212. architect, 213. preserve, 214. geometric, 215. deterministic, 216. disconnect, 217. calculated

218. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
219. dif_____ate between fact and fiction *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
220. a tremor of de____t *n.* a feeling of great pleasure or happiness
221. p__t twist *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
222. re___r the contract void *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
223. b__s against a big company *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
224. pre_____ved opinions *adj.* (of an idea or opinion) formed beforehand, especially without evidence for its truth or usefulness
225. aud_____um annex *n.* a room or building used for concerts, plays, or other public performances
226. el_____te Ponzi scheme *adj.* containing a lot of carefully prepared and organized or many complicated and detailed parts
227. tec_____cal policy *adj.* based on scientific and industrial progress
228. 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

ANSWERS: 218. decide, 219. differentiate, 220. delight, 221. plot, 222. render, 223. bias, 224. preconceived, 225. auditorium, 226. elaborate, 227. technological, 228. ratio

229. sc___t prototype	<i>v.</i>	to create a work of art by carving, casting, or other shaping techniques
230. z__m lens	<i>v.</i>	to move along very quickly; (noun) the act of rising upward into the air
231. in____e a high degree of risk	<i>v.</i>	to include or affect someone or something as a necessary part of something else
232. against tr_____on	<i>n.</i>	a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
233. chemical pr_____ty	<i>n.</i>	a thing or things that belong to someone
234. beautiful arc_____ral landmarks	<i>adj.</i>	of or relating to the design and construction of buildings and other structures and the features and style of such structures
235. str_____al analyses	<i>adj.</i>	associated with the way on construction or organization of anything
236. for in_____ce	<i>n.</i>	a particular example or single occurrence of something
237. pair of id_____al twins	<i>adj.</i>	being the exact same one
238. pulse la__r	<i>n.</i>	a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
239. ca_____te the distance	<i>v.</i>	to judge or find out the amount or number of something by using mathematics

ANSWERS: 229. sculpt, 230. zoom, 231. involve, 232. tradition, 233. property, 234. architectural, 235. structural, 236. instance, 237. identical, 238. laser, 239. calculate

240. br__d horses

v. to keep animals for producing offspring
in a regulated manner

ANSWERS: 240. breed

Session 3: Fill in the Blanks

1. Which _____ of the company do you work in?
n. the act or outcome of splitting into separate parts; a critical organizational unit or sector

2. These articles cite five _____ of climate change.
n. a particular example or single occurrence of something

3. There are _____ methods for dealing with stress.
adj. too numerous to be counted or very many

4. The company holds patents on core components of _____ jet printers.
n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

5. He couldn't _____ the actual value of the artwork.
v. to judge or find out the amount or number of something by using mathematics

6. She finally decided to _____ herself from the company.
v. to unfasten or disjoin something, especially to break the connection between a supply of gas, water, or electricity and a piece of equipment

7. There is a lot of _____ in the colors of flowers in the garden.
n. the act or state of changing; a difference or change in the way something is done, made or said

8. My home is easily _____ from the shore.
adj. capable of being seen; or open to easy view

ANSWERS: 1. division, 2. instances, 3. countless, 4. laser, 5. calculate, 6. disconnect, 7. variation, 8. visible

9. This bridge is the third largest _____ bridge in the world.
n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
10. The unforeseen weather change resulted in an _____ outcome for the outdoor event.
adj. not advantageous or beneficial; opposed to one's interests or desires
11. The _____ of the mountain made it difficult to breathe.
n. the height of something above sea level or above the ground; the event of something being raised upward
12. Some kinds of machine learning models show an _____ to how people learn.
n. a comparison between similar things that have similar aspects, often used to help explain a principle or concept
13. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress
14. The children complained because one _____ of cake was slightly larger than the other.
n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
15. Infant formulas are nutritionally almost _____ to a mother's breast milk.
adj. being the exact same one
16. The city is known for its impressive _____ and beautiful old buildings.
n. the art and science of designing and constructing buildings

ANSWERS: 9. steel, 10. unfavorable, 11. elevation, 12. analogy, 13. Technological, 14. slice, 15. identical, 16. architecture

17. Each department has done its product costing _____.
adv. separately or apart from others
18. He _____ himself to lift the heavyweight.
v. to put forth effort; to put into action; to bring into play
19. He stood to inherit a million-dollar _____.
n. a thing or things that belong to someone
20. The _____ of human thought is diverse.
n. the range of one's perceptions, thoughts, or actions, or a subject that
21. The European Central Bank is Europe's _____ of the Federal Reserve.
n. having the same value, quality, meaning, purpose, etc.
22. The construction industry is labor _____ although it has been somewhat automated by introducing large machinery.
adj. involving a lot of work or activity in a short time
23. He _____ back in time to the soccer game.
v. to move along very quickly; (noun) the act of rising upward into the air
24. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
n. a notable or impressive achievement, especially one that requires great skill or bravery
25. _____ a society is an organism.
adv. relating to the essential features or concepts of anything

ANSWERS: 17. individually, 18. exerted, 19. property, 20. scope, 21. equivalent, 22. intensive, 23. zoomed, 24. feat, 25. Essentially,

26. The company made a _____ decision to invest in new technology.

adj. done with careful thought or planning; deliberate and intentional; based on a process of reasoning or estimation rather than on instinct or chance

27. We must _____ a new system to streamline our workflow and increase efficiency.

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

28. Our company found it _____ difficult to keep up with the competition.

adv. more and more

29. Please _____ your explanation for the children.

v. to make something more straightforward, more understandable, or easier to do

30. Later, his claim was found to be _____ false.

adv. completely

31. The _____ for applying for a visa can be lengthy and complicated.

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

32. The gas was trapped inside the _____ under high pressure.

n. a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

33. The clockwork mechanism of the antique watch showed incredible _____.

n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements

ANSWERS: 26. calculated, 27. develop, 28. increasingly, 29. simplify, 30. entirely, 31. process, 32. cylinders, 33. intricacy

34. He is very popular at school because he can _____ all the teachers' accents.
v. to imitate someone's speech, movement, or behavior, especially to make others laugh
35. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length
36. He proposed an _____ program of public works.
adj. containing a lot of carefully prepared and organized or many complicated and detailed parts
37. The _____ illusion made it appear like the building was floating in midair.
adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
38. There was a _____ between speed and accuracy in the task.
n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
39. The baby _____ 1 pound 3 oz.
v. to have a particular weight; to carefully evaluate things before making a conclusion
40. The process was carried out at _____ cost.
adj. tiny in amount; the least possible
41. The budget _____ forced them to make difficult decisions.
n. a limit or restriction on something, such as an action, behavior, or thought

ANSWERS: 34. mimic, 35. dimensions, 36. elaborate, 37. optical, 38. trade-off, 39. weighs, 40. minimal, 41. constraint

42. The invention of the camera triggered the development of _____ painting.
adj. based on general ideas, feelings, or qualities and not on any a physical or concrete existence
43. He walked a road _____ to the railroad.
adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
44. University is a great place to _____ our minds and expertise.
v. to prepare and foster land for growing crops or plants
45. They worked hard to _____ the nature of their native lands.
v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
46. Eyeless fish _____ in dark caves.
v. to develop gradually, or to cause the development of something or someone gradually
47. The teacher asked the students to _____ between the two similar species of birds.
v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
48. The final result was nothing short of _____.
v. to surprise or shock someone with wonder very much
49. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something

ANSWERS: 42. abstract, 43. parallel, 44. cultivate, 45. preserve, 46. evolved, 47. differentiate, 48. astounding, 49. origin

50. She was able to _____ her argument in the debate clearly.
- v.* to express oneself clearly and effectively in spoken or written language
51. Scientists study the _____ of chemical elements and compounds to better understand their properties and potential uses.
- n.* the act or process of rearranging or reordering a set of elements or objects in a different sequence or configuration; a specific arrangement or order of a set of elements or objects
52. The corporation _____ dominated the entire tobacco business.
- adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
53. In several countries, child _____ is a serious social problem.
- n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
54. The _____ shapes and patterns in the artwork are visually stunning.
- adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
55. Inspectors noticed _____ cracks in the submarine's hull.
- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
56. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
- n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

ANSWERS: 50. articulate, 51. permutations, 52. eventually, 53. labor, 54. geometric, 55. microscopic, 56. tradition

57. 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
58. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
59. He could no longer tell the difference between _____ and reality.
- n.* a false idea or belief, especially about somebody or about a situation
60. We cannot _____ her as President.
- v.* to imagine or expect what a situation will be like in the future
61. She is the _____ president of the company.
- adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
62. We _____ the results of the election with bated breath.
- v.* to wait or stay ready for something; to expect or anticipate something
63. I cut the cheese into small _____ for the salad.
- n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
64. This animal _____ in northern latitudes.
- v.* to keep animals for producing offspring in a regulated manner

ANSWERS: 57. algorithm, 58. involves, 59. illusion, 60. envision, 61. virtual, 62. await, 63. cubes, 64. breeds

65. Management must take _____ responsibility for the accident.

adj. furthest or highest in degree or order

66. The _____ of the earth can be seen from space.

n. the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

67. The _____ seating was filled with people waiting for the concert to begin.

n. a room or building used for concerts, plays, or other public performances

68. This is the only _____ strategy.

adj. capable of being imagined

69. _____ to the family, the treasure had been hidden in the attic for years.

adv. without the knowledge or awareness of someone; without someone's knowledge or participation

70. 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

71. Defects in _____ can lead to developmental abnormalities and congenital disabilities.

n. the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms

72. Can you _____ 123321 by eleven?

v. to separate or cause to separate into parts or groups

ANSWERS: 65. ultimate, 66. curvature, 67. auditorium, 68. imaginable, 69. Unbeknownst, 70. biology, 71. morphogenesis, 72. divide

73. The consequences of the pandemic remain _____ as scientists continue to research the virus.

adj. not seen or noticed; not perceived

74. I want to _____ a toast in honor of our longstanding relationship.

v. to make a proposal, declare a plan for something

75. 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

76. The mule is a _____ between a male donkey and a female horse.

adj. composed of different elements or mixed characters

77. The report divided the data into _____ based on age, gender, and income level.

n. a part or section of something; a distinct group within a larger whole

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

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

79. The project's _____ outlined the goals and requirements for the team to complete.

n. a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job

80. She's on the _____ of adulthood.

n. the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation

ANSWERS: 73. unseen, 74. propose, 75. decide, 76. hybrid, 77. segments, 78. volume, 79. specifications, 80. threshold

81. Companies often _____ their shares to lower the stock price and encourage investors to buy.
- v.* to divide, or to make something divide into two or more parts, especially along a particular line
82. The _____ of getting the disease will drastically increase.
- n.* a chance that something may happen or be true
83. The earthquake caused a _____ of lumber to crumble noisily.
- n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
84. The _____ of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.
- n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
85. Please _____ to the instruction manual for further assistance.
- v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
86. He made a New Year's _____ to exercise more and eat healthier.
- n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
87. The building _____ tried to build the house above the tree.
- n.* a person whose job is to design plans to be used in making something, such as buildings

ANSWERS: 81. split, 82. possibility, 83. stack, 84. plot, 85. refer, 86. resolution, 87. architect

88. The hero's journey is a common _____ in many myths and stories.
- n.* a very typical example of a certain person or thing; a recurrent symbol or motif in literature, art, or mythology that represents a universal pattern of human nature
89. The jury must _____ a decision on this complex case.
- v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
90. She researched gender _____ in politics.
- n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
91. He carefully _____ the details of his business plan.
- v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
92. To find drunk drivers, police conduct _____ tests.
- adj.* made, done, or happening without method, conscious decision, or any regular pattern
93. The artist's innovative style of work _____ me.
- v.* to make someone interested, especially by being strange, unusual, or mysterious; to make a secret plan with other people to harm someone
94. He spent hours every day _____ figures out of clay.
- v.* to create a work of art by carving, casting, or other shaping techniques
95. The professor spent hours _____ on the complexities of quantum physics.
- v.* to explain or clarify something in detail or with great care; to interpret or elucidate

ANSWERS: 88. archetype, 89. render, 90. bias, 91. orchestrated, 92. random, 93. intrigues, 94. sculpting, 95. expounding

96. Her multidisciplinary works _____ music and picture with writing.
v. to meet or cross one another
97. 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
98. The earthquake resulted in significant _____ destruction.
adj. associated with the way on construction or organization of anything
99. The _____ on the child's faces when they received the toy was priceless.
n. a feeling of great pleasure or happiness
100. The _____ number on the dial was 3.
adj. similar to, connected with, or accompanying something, especially in position or purpose
101. The economy becomes more volatile and less _____.
adj. capable of being known, seen or declared in advance
102. 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
103. The _____ design of the building made it stand out in the city skyline.
adj. lacking symmetry or balance; not corresponding in size, shape, or degree; characterized by an uneven or unequal distribution or arrangement
104. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge

ANSWERS: 96. intersect, 97. discovery, 98. structural, 99. delight, 100. corresponding, 101. predictable, 102. structure, 103. asymmetric, 104. experiments

105. The unique style of this martial arts _____ many action film producers.
v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
106. 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
107. Who answers _____ knows little.
adv. quickly and unexpectedly
108. It is essential to keep these two issues _____.
adj. noticeable from something else of a similar type
109. The doctor ordered an _____ to see if there was any damage to the bones.
n. a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
110. The newspaper devoted several _____ to the affair.
n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
111. The first _____ of the virus appeared in less than a month.
n. something that is slightly different from others of the same type
112. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special

ANSWERS: 105. inspired, 106. ratio, 107. suddenly, 108. distinct, 109. X-ray, 110. columns, 111. variant, 112. remarkable

113. We should start a discussion from scratch with no _____ ideas.

adj. (of an idea or opinion) formed beforehand, especially without evidence for its truth or usefulness

114. As the sun set, the colors of the sky merged with the _____ creating a beautiful orange and pink hue.

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

115. The _____ style of the building was a mix of modern and traditional.

adj. of or relating to the design and construction of buildings and other structures and the features and style of such structures

116. Some herds have been observed to _____ hundreds of kilometers.

v. to make or be capable of making anything longer or broader without hurting or breaking

117. 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

118. I remembered that person _____ and never forgot.

adv. immediately

119. Our team caught a _____ of the world-class technique in this game.

n. a brief or partial view; the act of seeing something or someone for a very short time or only partly

120. The _____ algorithm always produces the same result for a given input.

adj. characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

ANSWERS: 113. preconceived, 114. horizon, 115. architectural, 116. stretch, 117. sect, 118. instantly, 119. glimpse, 120. deterministic

ANSWERS: