

# Englist.me



## Vocabulary Builder Reference from...

*John Graham-Cumming: The greatest machine that never was | TED Talk*

[https://www.ted.com/talks/john\\_graham\\_cumming\\_the\\_greatest\\_machine\\_that\\_never\\_was](https://www.ted.com/talks/john_graham_cumming_the_greatest_machine_that_never_was)

### All Words

#### IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

## Session 1: Word List

### revolution

*n.* a large-scale attempt to overthrow the government of a country, often using violence or war;

*synonym*: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

### prototype

*n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

*synonym*: mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

### affinity

*n.* a natural liking or attraction to something; kinship by marriage or adoption

*synonym*: liking, attraction, fondness

(1) **affinity** group, (2) have a high **affinity**

He has a strong **affinity** for music and plays multiple instruments.

### unkempt

*adj.* untidy, disheveled, or messy in appearance; not properly cared for or maintained

*synonym*: messy, disheveled, untidy

(1) **unkempt** hair, (2) **unkempt** garden

She was so absorbed in her research that she often had an **unkempt** appearance, forgetting even basic grooming.

## 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.

## aristocracy

*n.* a group of persons with high social status

*synonym*: elite, nobility, upper class

(1) member of the **aristocracy**, (2) the blue-blooded **aristocracy**

Despite his popularity among the **aristocracy**, he was unpopular with the general public.

## intelligentsia

*n.* the educated and intellectual elite of society, particularly those involved in cultural or artistic pursuits

*synonym*: intellectuals, intelligents, savants

(1) members of **intelligentsia**, (2) artistic **intelligentsia**

The voices of the political and academic **intelligentsia** dominated the debate.

## invite

*v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

*synonym*: ask, request, summon

(1) **invite** guests, (2) **invite** criticism

We want to **invite** you to our annual charity event.

## soirée

*n.* an evening party or reception, typically in a private house

*synonym*: party, gathering, reception

(1) elegant **soirée**, (2) take part in a **soirée**

She was invited to many exclusive **soirées** and social events.

## mechanical

*adj.* operated by a machine, relating to or concerned with machinery or tools

*synonym* : machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

## era

*n.* a period that is distinct from others, typically in history

*synonym* : epoch, age, period

(1) dawn of a new **era**, (2) the **era** of the Renaissance

Political corruption was common throughout the postwar **era**.

## demonstrate

*v.* to display something or give an exhibition to an interested audience

*synonym* : show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

## fairly

*adv.* to a certain extent or degree; without favoring one party in an evenhanded manner

*synonym* : moderately, reasonably, pretty

(1) **fairly** accurate, (2) have a **fairly** clear view

He deals **fairly** with his employees.

## 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**.

## Newtonian

*adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation

*synonym* : classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

## hawk

*n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations

*synonym* : militarist, jingo, aggressor

(1) cast off a **hawk**, (2) congressional **hawk**

That team signed a center forward who was a ball- **hawk**.

## compute

*v.* to make a mathematical calculation

*synonym* : calculate

(1) **compute** an average score, (2) **compute** the value

I tried to **compute** the efficiency of the investment.

## device

*n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

*synonym* : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

## classic

*adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type

*synonym* : definitive, traditional, typical

(1) a **classic** experiment, (2) Chinese **classic** literature

He displayed the **classic** symptoms of depression.

## nerd

*n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

*synonym* : geek, techie, wonk

(1) a computer **nerd**, (2) **nerd** neck

He was, by nature, a cyber **nerd**.

## brilliant

*adj.* extremely clever, skilled, or impressive

*synonym* : luminous, intelligent, clever

(1) **brilliant** idea, (2) **brilliant** performance

The more **brilliant** you are, the more people around you look at you with envy and jealousy.

## 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**.

## peel

*v.* to remove the skin of fruit and vegetables

*synonym* : pare, unclothe, disrobe

(1) **peel** a fruit, (2) **peel** off easily

The storm had **peeled** all paint off the siding.

## prime

*adj.* main or most important; basic; (prime number, noun) a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers (e.g., 2, 3, 5, 7, 11 and 13)

*synonym* : excellent, exceptional, premium

(1) **prime** number, (2) deputy **prime** minister

After a thorough investigation, she has been named as the **prime** suspect.

## minister

*n.* a person appointed to or a job of a head of a government department

*synonym* : bishop, official, ambassador

(1) **Minister** for Education, (2) deputy prime **minister**

The **minister** occasionally preaches at this church.

## monstrosity

*n.* a thing that is very ugly, shocking, or offensive; something so large or complex that it seems difficult to understand or control

*synonym* : monstrous, freak, deformity

(1) **monstrosity** of war, (2) **monstrosity** of nature

The creature's **monstrosity** in the horror movie shocked the audience.

## analytical

*adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze

*synonym* : investigative, logical, cogent

(1) **analytical** approach, (2) **analytical** ability

He is **analytical** and can break down complex problems into manageable parts.

## engine

*n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

*synonym* : motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

## cog

*n.* a tooth or projection on a gearwheel or sprocket, which transmits force and motion between moving parts; a person who plays a small or subordinate but essential role in an organization or system

*synonym* : gear, wheel, sprocket

(1) **cog** in the system, (2) missing **cog**

The **cog** in the machine broke down, causing a delay in production.

## 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.

## locomotive

*n.* a powered rail vehicle used for pulling trains or railway cars; an engine that produces the necessary power for the train to move on the tracks

*synonym* : train, engine, motor

(1) **locomotive** engine, (2) diesel **locomotive**

The powerful **locomotive** chugged along the tracks, hauling a long line of freight cars.

## gigantic

*adj.* extremely large

*synonym* : huge, enormous, immense

(1) **gigantic** proportions, (2) **gigantic** monsters

He was so hungry from the long journey that he had a **gigantic** appetite.

## 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.

## metal

*n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

*synonym* : alloy, metalloid

(1) **metal** fabrication, (2) precious **metal**

The construction worker used a **metal** saw to cut through the stubborn sheet metal.

## numb

*adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity

*synonym* : dazed, insensitive, emotionless

(1) **numb** with cold, (2) a **numb** mind

My left arm became **numb**.

## decimal

*adj.* based on or counted in the number 10

*synonym*: base-10, denary, ten-based

(1) **decimal** system, (2) an infinite **decimal**

The **decimal** point separates the whole number from the fractional part.

## binary

*n.* a system of numbers that uses only two digits, 0 and 1

*synonym*: twofold, double

(1) a **binary** number, (2) trading in **binary** options

A **binary** star is a system in which two stars revolve around each other.

## ridiculous

*adj.* very silly or unreasonable and deserving to be laughed at

*synonym*: absurd, fatuous, foolish

(1) a **ridiculous** amount of money, (2) a **ridiculous** suggestion

Everyone regarded the theory he advocated as **ridiculous** but was later proven correct.

## enormous

*adj.* extremely large or great

*synonym*: huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential

Shakespeare's output of poetry was **enormous**.

## chip

*n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

*synonym*: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

## 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.

## function

- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

*synonym*: purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

## arithmetic

- n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

*synonym*: computation, calculation, math

(1) decimal **arithmetic**, (2) mental **arithmetic**

The abacus is an ancient counting device that was used for **arithmetic** calculations.

## addition

- n.* the act or process of adding something to something else; the process of adding numbers

*synonym*: accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

## multiply

- v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

*synonym*: boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold

**Multiply** a number by itself twice.

## subtraction

- n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities

*synonym*: deduction, minus, withdrawal

(1) **subtraction** equation, (2) double-digit **subtraction**

The **subtraction** of expenses from revenue resulted in a net profit for the company.

## 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?

## 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.

## calculator

*n.* a small electronic device for making arithmetic calculations

*synonym*: computer, machine, estimator

(1) **calculator** app, (2) analog **calculator**

I left my alpha **calculator** at home, so I had to borrow one from a classmate to finish my math homework.

## internal

*adj.* of or relating to the inside of something

*synonym*: interior, inner, domestic

(1) **internal** organs, (2) the **internal** economy

The prime minister canceled visits to other countries to resolve **internal** disputes.

## decision

*n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options

*synonym*: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

## 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.

## silicon

*n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

**Silicon** is the second most abundant element on earth after oxygen.

## incredible

*adj.* unbelievable; enormous

*synonym*: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

## complexity

*n.* the state or quality of being complicated or intricate and difficult to understand

*synonym*: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

## regularity

*n.* the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency

*synonym*: consistency, uniformity, regularness

(1) the **regularity** of his breathing, (2) sleep **regularity**

The **regularity** of exercise is important for maintaining good health.

## electron

*n.* a tiny particle with the negative electrical charge

*synonym* : negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

## microscope

*n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

*synonym* : lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

## incredibly

*adv.* in a way that is very difficult to believe; exceedingly or extremely

*synonym* : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

## complicated

*adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

*synonym* : complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

## mechanism

*n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

*synonym* : means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

## reappear

v. to show up again or return after not being heard of or seen for a period of time

*synonym*: come again, repeat, re-emerge

(1) **reappear** on the surface, (2) **reappear** throughout this book

Cancer has **reappeared** at the same site.

## punch

v. to strike someone or something with one's fist; to make a hole in something

*synonym*: hit, strike, slap

(1) **punch** out numbers, (2) **punch** a ticket

He **punched** the wall in anger.

## anticipate

v. to expect or predict that something will happen; to tell in advance

*synonym*: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We **anticipate** heavy snowfall tomorrow.

## loom

v. to appear or take shape as a large, especially in a frightening way

*synonym*: appear, come on, overshadow

(1) **loom** over the global economy, (2) **loom** on the horizon

The issue of divorce **loomed** large in his mind.

## weave

v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

*synonym*: braid, unite, contrive

(1) **weave** on a loom, (2) **weave** a story

The girl **weaves** a garland for her friend.

## repurpose

v. to use something again for a different purpose than it was originally intended

*synonym*: reutilize, recycle, reuse

(1) **repurpose** an old building, (2) **repurpose** a used car

The old barn was **repurposed** into a modern event space.

## revolutionize

*v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas

*synonym*: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

## dynamo

*n.* a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field

*synonym*: generator, powerhouse

(1) a **dynamo** of productivity, (2) marketing **dynamo**

The electrical **dynamo** produced enough power to light up the entire city.

## transform

*v.* to change in outward structure or looks;

*synonym*: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

## accessory

*n.* an additional item or object that enhances or complements something else; a supplementary component or attachment; a nonessential but desirable item or feature

*synonym*: add-on, embellishment, attachment

(1) fashion **accessory**, (2) car **accessory**

She bought a new handbag as a stylish **accessory** for her outfit.

## obvious

*adj.* easy to see, discover or understand

*synonym*: apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

### attendant

*n.* a person who is employed to provide a service or perform tasks, often in a public place, such as a flight attendant, parking attendant, or hospital attendant

*synonym*: assistant, aide, guide

(1) flight **attendant**, (2) personal **attendant**

The **attendant** at the parking lot directed me to an available parking spot

### instruction

*n.* detailed direction, order, etc., on how to do or use something

*synonym*: education, direction, guidance

(1) individual **instruction**, (2) follow his **instructions**

They needed further **instruction** to perform their duties efficiently.

### ding

*v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food

*synonym*: hit, smack, bump

(1) **ding** a bell, (2) **ding** a ling

I accidentally **dinged** my new car door in the parking lot.

### obsess

*v.* to fill the mind of someone continually so that one can't think of anything else

*synonym*: torment, beset, engross

(1) **obsess** over her weight, (2) he is **obsessed** with the fear

He's utterly **obsessed** with his promotion.

### wrap

*v.* to cover or enclose something entirely with paper, cloth, or other material

*synonym*: surround, cover, bandage

(1) **wrap** a fish in foil, (2) **wrap** up a meeting

**Wrap** the bandage tightly around the injured arm.

## graphics

*n.* images, designs, or drawings used in websites, books, magazines, etc.

*synonym*: drawings, illustrations, pictures

(1) computer **graphics**, (2) **graphics** engine

My dream is to become a great **graphics** designer like her.

## 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.

## 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.

## lord

*n.* a person who has general authority, control, or power over others; a man of noble rank or high office

*synonym*: master, noble, peer

(1) a young **lord**, (2) **lord** of castle

The feudal **lord** had ruled the land for many years.

## inherit

*v.* to receive money, property, or a title from someone after they have died

*synonym*: obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

## calm

*adj.* not excited, angry, or nervous; free from wind, large waves

*synonym*: quiet, peaceful, tranquility

(1) **calm** sea, (2) **calm** manner



It was the first time in a long time that I felt truly **calm** and at peace.

## crazy

*adj.* stupid or not sensible; very angry

*synonym*: insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme

The rain and thunder are **crazy** today.

## lifetime

*n.* the duration of someone's life or something's existence;

*synonym*: lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport

She had lived through two world wars in her **lifetime**.

## owe

*v.* to be under a moral or legal obligation to pay or do something in return for something received;

*synonym*: have an obligation, incur

(1) **owe** \$100 to my friend, (2) **owe** him a grudge

She **owes** her friend a favor for helping her move.

## intention

*n.* something you want to do and are going to do

*synonym*: purpose, connotation, will

(1) **intention** behind his decision, (2) clear **intention**

Our CEO's **intentions** are always transparent and straightforward.

## translate

*v.* to convert or change words into another language

*synonym*: convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

**Translate** the text from Italian into English.

## 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.

## accurate

*adj.* correct and exact in all details

*synonym* : exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains **accurate** academic records.

## 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.

## underlying

*adj.* significant as a cause or basis of something but not immediately apparent or stated clearly

*synonym* : fundamental, latent, basic

(1) an **underlying** motive, (2) an **underlying** cause of an accident

The **underlying** principle of every business was identical.

## symbol

*n.* something visible that is used to represent something else

*synonym* : mark, character, insignia

(1) **symbol** color, (2) **symbol** for happiness

The dragon is considered a **symbol** of bravery.

## represent

*v.* to speak, act, or be present on behalf of another person or group; to form or constitute

*synonym* : depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

## leap

*v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

*synonym* : jump, bound, hop

(1) **leap** to a conclusion, (2) **leap** of faith

The athlete was able to **leap** over the hurdle with ease.

## 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.

## compose

*v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

*synonym*: compile, constitute, build

(1) **compose** an essay, (2) **compose** my thoughts

The structure is **composed** of three main components.

## representation

*n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

*synonym*: delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**

A person who has been declared incompetent should have legal **representation**.

## numerical

*adj.* relating to, expressed, or denoted by a number

*synonym*: quantitative, numeral, mathematical

(1) 3D **numerical** simulation, (2) the **numerical** keypad

The **numerical** value of Pi is approximately 3.14.

## invention

*n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

*synonym*: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

## 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.

## theoretical

*adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

*synonym*: conceptual, conjectural, ideal

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

Absolute zero is the lowest **theoretical** temperature.

## perspective

*n.* a confident attitude toward something; a particular style of thinking about something

*synonym*: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle

His father's death changed his whole **perspective** on life.

## foundation

*n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

*synonym*: base, support, groundwork

(1) **foundation** course, (2) weak **foundation**

The **foundation** of the building was cracked and needed to be repaired.

## electronics

*n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

*synonym*: technology, gadgets, circuitry

(1) **electronics** industry, (2) **electronics** store

The company specializes in manufacturing and selling cutting-edge **electronics**.

## nanoscale

*adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

## essence

*n.* the basic or most important part or quality of something that makes it what it is

*synonym*: core, nature, disposition

(1) vanilla **essence**, (2) universal **essence**

University teaches the art of understanding the **essence** of the matter.

## thesis

*n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

*synonym*: dissertation, argument, treatise

(1) a drift of a **thesis**, (2) master **thesis**

His **thesis** on the effects of climate change won several awards.

## suddenly

*adv.* quickly and unexpectedly

*synonym*: abruptly, unexpectedly, unawares

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

Who answers **suddenly** knows little.

## capable

*adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise

*synonym*: able, competent, proficient

(1) **capable** worker, (2) **capable** leader

She is highly **capable** of handling multiple tasks at once.

## ram

*v.* to strike or push forcefully, often to cause damage; to batter or break open a door or barrier using brute force

*synonym*: crash, collide, slam

(1) **ram** the door open, (2) **ram** into the ice

The car **rammed** into the wall, causing significant damage.

## archives

*n.* a collection of historical documents or records providing information about a place, institution, or group of people

*synonym*: records, documents, repository

(1) historical **archives**, (2) digital **archives**

The **archives** at the library contain a wealth of information about the city's history.

## 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.

## curator

*n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.

*synonym*: conservator, custodian, administrator

(1) **curator** of a library, (2) interim **curator**

The museum **curator** conserved the ancient manuscripts.

## scan

*v.* to examine something hastily, with the eyes or with a machine, to get information

*synonym*: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

## arch

*n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building

*synonym*: turn, bow, arc

(1) the **arch** of a person's foot, (2) an **arch-shaped** stone structure

The **arch** bears the weight of the overhead bridge.

## determinant

*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular

outcome or result

*synonym* : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

## simulate

*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

*synonym* : pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario

He had painted the wood to **simulate** stone.

## physically

*adv.* in a way related to a person's body or appearance rather than their mind

(1) **physically** and mentally, (2) stay **physically** fit

Having a **physically** healthy physique is essential for a great life.

## humongous

*adj.* extremely large; gigantic; huge; excessively big

*synonym* : gigantic, enormous, colossal

(1) **humongous** appetite, (2) **humongous** amount

The new office building was **humongous** and could fit hundreds of employees comfortably.

## operate

*v.* to work in a particular way; to supervise something

*synonym* : work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

## probable

*adj.* likely to happen or likely to be true

*synonym* : likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

**fiddle**

v. to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage

*synonym*: tinker, diddle, play

(1) **fiddle** with a PC, (2) **fiddle** away the whole afternoon

She was able to **fiddle** a free trip to the United States.



## Session 2: Spelling

1. rev\_\_\_\_\_ize the technology  
*v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
2. pr\_\_\_\_\_le outcome  
*adj.* likely to happen or likely to be true
3. missing c\_g  
*n.* a tooth or projection on a gearwheel or sprocket, which transmits force and motion between moving parts; a person who plays a small or subordinate but essential role in an organization or system
4. we\_\_e on a loom  
*v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
5. tr\_\_\_\_\_rm an education system  
*v.* to change in outward structure or looks;
6. mu\_\_\_\_\_ly about hundredfold  
*v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
7. ele\_\_\_\_\_cs store  
*n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
8. achieve the hi\_\_\_\_\_ic feat  
*adj.* famous or significant in history, or potentially so
9. hu\_\_\_\_\_us amount  
*adj.* extremely large; gigantic; huge; excessively big

ANSWERS: 1. revolutionize, 2. probable, 3. cog, 4. weave, 5. transform, 6. multiply, 7. electronics, 8. historic, 9. humongous

10. 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
11. take part in a so\_\_\_e *n.* an evening party or reception, typically in a private house
12. tr\_\_\_\_\_te a document into English *v.* to convert or change words into another language
13. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand
14. Ne\_\_\_\_\_an physics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
15. s\_\_n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
16. ac\_\_\_\_\_te measurements *adj.* correct and exact in all details
17. trading in bi\_\_\_y options *n.* a system of numbers that uses only two digits, 0 and 1
18. deputy pr\_\_e minister *adj.* main or most important; basic; (prime number, noun) a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers (e.g., 2, 3, 5, 7, 11 and 13)
19. re\_\_\_\_\_se an old building *v.* to use something again for a different purpose than it was originally intended
20. co\_\_\_\_\_e an average score *v.* to make a mathematical calculation
21. a n\_\_b mind *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity

ANSWERS: 10. graph, 11. soirée, 12. translate, 13. complexity, 14. Newtonian, 15. scan, 16. accurate, 17. binary, 18. prime, 19. repurpose, 20. compute, 21. numb

22. in\_\_\_e guests *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
23. car ac\_\_\_\_\_ry *n.* an additional item or object that enhances or complements something else; a supplementary component or attachment; a nonessential but desirable item or feature
24. an und\_\_\_\_\_ng motive *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
25. follow his ins\_\_\_\_\_ons *n.* detailed direction, order, etc., on how to do or use something
26. af\_\_\_\_\_ty group *n.* a natural liking or attraction to something; kinship by marriage or adoption
27. in\_\_\_\_\_t ancestral property *v.* to receive money, property, or a title from someone after they have died
28. analog cal\_\_\_\_\_or *n.* a small electronic device for making arithmetic calculations
29. de\_\_\_\_\_on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
30. binary rep\_\_\_\_\_ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
31. die su\_\_\_\_\_ly *adv.* quickly and unexpectedly

ANSWERS: 22. invite, 23. accessory, 24. underlying, 25. instruction, 26. affinity, 27. inherit, 28. calculator, 29. decision, 30. representation, 31. suddenly

32. the me\_\_\_\_\_sm for DNA replication     *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
33. loc\_\_\_\_\_ve engine     *n.* a powered rail vehicle used for pulling trains or railway cars; an engine that produces the necessary power for the train to move on the tracks
34. the characters that re\_\_\_\_\_nt numbers     *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
35. 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
36. ant\_\_\_\_\_te a black future     *v.* to expect or predict that something will happen; to tell in advance
37. cr\_\_y about cars and racing     *adj.* stupid or not sensible; very angry
38. l\_\_m on the horizon     *v.* to appear or take shape as a large, especially in a frightening way
39. the\_\_\_\_\_al physicist     *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
40. w\_\_p up a meeting     *v.* to cover or enclose something entirely with paper, cloth, or other material
41. gi\_\_\_\_\_ic proportions     *adj.* extremely large
42. l\_\_d of castle     *n.* a person who has general authority, control, or power over others; a man of noble rank or high office

ANSWERS: 32. mechanism, 33. locomotive, 34. represent, 35. charity, 36. anticipate, 37. crazy, 38. loom, 39. theoretical, 40. wrap, 41. gigantic, 42. lord

43. o\_e \$100 to my friend *v.* to be under a moral or legal obligation to pay or do something in return for something received;
44. digital ar\_\_\_\_es *n.* a collection of historical documents or records providing information about a place, institution, or group of people
45. li\_\_\_\_\_me benefits *n.* the duration of someone's life or something's existence;
46. things at the na\_\_\_\_\_le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
47. the influence of mec\_\_\_\_\_al action *adj.* operated by a machine, relating to or concerned with machinery or tools
48. a young l\_\_d *n.* a person who has general authority, control, or power over others; a man of noble rank or high office
49. cast off a h\_\_k *n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
50. a steam en\_\_\_e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
51. cellular di\_\_\_\_\_on *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
52. p\_\_l off easily *v.* to remove the skin of fruit and vegetables

ANSWERS: 43. owe, 44. archives, 45. lifetime, 46. nanoscale, 47. mechanical, 48. lord, 49. hawk, 50. engine, 51. division, 52. peel

53. fun\_\_\_\_\_al rights *adj.* forming an essential base or core from which everything else develops or is affected
54. co\_\_\_\_\_e the value *v.* to make a mathematical calculation
55. intellectual f\_\_t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
56. Mi\_\_\_\_\_er for Education *n.* a person appointed to or a job of a head of a government department
57. ca\_\_\_\_\_e worker *adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
58. phy\_\_\_\_\_ly and mentally *adv.* in a way related to a person's body or appearance rather than their mind
59. interim cu\_\_\_\_\_r *n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
60. chemical ad\_\_\_\_\_on *n.* the act or process of adding something to something else; the process of adding numbers
61. en\_\_\_\_\_us amount *adj.* extremely large or great
62. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous
63. hu\_\_\_\_\_us appetite *adj.* extremely large; gigantic; huge; excessively big
64. flight at\_\_\_\_\_nt *n.* a person who is employed to provide a service or perform tasks, often in a public place, such as a flight attendant, parking attendant, or hospital attendant

ANSWERS: 53. fundamental, 54. compute, 55. feat, 56. minister, 57. capable, 58. physically, 59. curator, 60. addition, 61. enormous, 62. incredible, 63. humongous, 64. attendant

65. mon\_\_\_\_\_ty of nature *n.* a thing that is very ugly, shocking, or offensive; something so large or complex that it seems difficult to understand or control
66. fi\_\_\_e with a PC *v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage
67. 3D nu\_\_\_\_\_al simulation *adj.* relating to, expressed, or denoted by a number
68. member of the ari\_\_\_\_\_cy *n.* a group of persons with high social status
69. w\_\_p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
70. su\_\_\_\_\_ly attacked by an enemy *adv.* quickly and unexpectedly
71. mon\_\_\_\_\_ty of war *n.* a thing that is very ugly, shocking, or offensive; something so large or complex that it seems difficult to understand or control
72. a det\_\_\_\_\_nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
73. he was en\_\_\_\_\_ly to blame *adv.* completely
74. deputy prime mi\_\_\_\_\_er *n.* a person appointed to or a job of a head of a government department
75. br\_\_\_\_\_nt idea *adj.* extremely clever, skilled, or impressive

ANSWERS: 65. monstrosity, 66. fiddle, 67. numerical, 68. aristocracy, 69. wrap, 70. suddenly, 71. monstrosity, 72. determinant, 73. entirely, 74. minister, 75. brilliant

76. o\_e him a grudge *v.* to be under a moral or legal obligation to pay or do something in return for something received;
77. in\_\_\_\_t estate *v.* to receive money, property, or a title from someone after they have died
78. in\_\_\_\_\_on behind his decision *n.* something you want to do and are going to do
79. the blue-blooded ari\_\_\_\_\_cy *n.* a group of persons with high social status
80. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
81. the e\_a of the Renaissance *n.* a period that is distinct from others, typically in history
82. classic arc\_\_\_\_\_ure *n.* the art and science of designing and constructing buildings
83. br\_\_\_\_\_nt performance *adj.* extremely clever, skilled, or impressive
84. fun\_\_\_\_\_al education *adj.* forming an essential base or core from which everything else develops or is affected
85. the reg\_\_\_\_\_ty of his breathing *n.* the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency
86. master th\_\_\_\_s *n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

ANSWERS: 76. owe, 77. inherit, 78. intention, 79. aristocracy, 80. determinant, 81. era, 82. architecture, 83. brilliant, 84. fundamental, 85. regularity, 86. thesis



87. get inc\_\_\_\_\_ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
88. re\_\_\_\_\_ar throughout this book *v.* to show up again or return after not being heard of or seen for a period of time
89. an und\_\_\_\_\_ng cause of an accident *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
90. fou\_\_\_\_\_on course *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
91. gi\_\_\_\_\_ic monsters *adj.* extremely large
92. r\_m the door open *v.* to strike or push forcefully, often to cause damage; to batter or break open a door or barrier using brute force
93. in\_\_\_\_\_al organs *adj.* of or relating to the inside of something
94. have a fa\_\_\_y clear view *adv.* to a certain extent or degree; without favoring one party in an evenhanded manner
95. ill fo\_\_\_\_\_e *n.* a large amount of money or property; chance or luck as an unknown and arbitrary force affecting human affairs
96. a mec\_\_\_\_\_al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools

ANSWERS: 87. incredibly, 88. reappear, 89. underlying, 90. foundation, 91. gigantic, 92. ram, 93. internal, 94. fairly, 95. fortune, 96. mechanical

97. personal at\_\_\_\_\_nt *n.* a person who is employed to provide a service or perform tasks, often in a public place, such as a flight attendant, parking attendant, or hospital attendant
98. sales rep\_\_\_\_\_ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
99. rev\_\_\_\_\_ize the industry *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
100. gr\_\_\_\_\_cs engine *n.* images, designs, or drawings used in websites, books, magazines, etc.
101. vanilla es\_\_\_\_\_e *n.* the basic or most important part or quality of something that makes it what it is
102. a good grounding in mat\_\_\_\_\_cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
103. ana\_\_\_\_\_al ability *adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
104. early pr\_\_\_\_\_pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
105. 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

ANSWERS: 97. attendant, 98. representation, 99. revolutionize, 100. graphics, 101. essence, 102. mathematics, 103. analytical, 104. prototype, 105. plot

106. ob\_\_\_\_s reasons *adj.* easy to see, discover or understand
107. elegant so\_\_\_e *n.* an evening party or reception, typically in a private house
108. majority of his we\_\_\_h *n.* a large amount of money, property, or other things that someone or an organization owns
109. tracking de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
110. he is ob\_\_\_sed with the fear *v.* to fill the mind of someone continually so that one can't think of anything else
111. re\_\_\_\_ar on the surface *v.* to show up again or return after not being heard of or seen for a period of time
112. a computer n\_\_d *n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
113. beginning of the industrial rev\_\_\_\_\_on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
114. Chinese cl\_\_\_\_c literature *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
115. di\_\_\_\_on chief *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector

ANSWERS: 106. obvious, 107. soirée, 108. wealth, 109. device, 110. obsess, 111. reappear, 112. nerd, 113. revolution, 114. classic, 115. division

116. cal\_\_\_\_\_or app *n.* a small electronic device for making arithmetic calculations
117. precious me\_\_l *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
118. pu\_\_h out numbers *v.* to strike someone or something with one's fist; to make a hole in something
119. a cr\_\_y scheme *adj.* stupid or not sensible; very angry
120. we\_\_e a story *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
121. common in\_\_\_\_\_on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
122. immune fu\_\_\_\_\_on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
123. artistic int\_\_\_\_\_sia *n.* the educated and intellectual elite of society, particularly those involved in cultural or artistic pursuits

ANSWERS: 116. calculator, 117. metal, 118. punch, 119. crazy, 120. weave, 121. invention, 122. function, 123. intelligentsia

124. 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
125. sleep reg\_\_\_\_\_ty *n.* the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency
126. Ne\_\_\_\_\_an mechanics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
127. the per\_\_\_\_\_ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
128. ob\_\_\_s over her weight *v.* to fill the mind of someone continually so that one can't think of anything else
129. de\_\_\_\_\_l system *adj.* based on or counted in the number 10
130. an a\_\_h-shaped stone structure *n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building
131. un\_\_\_\_\_t hair *adj.* untidy, disheveled, or messy in appearance; not properly cared for or maintained
132. a drift of a th\_\_\_s *n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject
133. members of int\_\_\_\_\_sia *n.* the educated and intellectual elite of society, particularly those involved in cultural or artistic pursuits

ANSWERS: 124. plot, 125. regularity, 126. Newtonian, 127. perspective, 128. obsess, 129. decimal, 130. arch, 131. unkempt, 132. thesis, 133. intelligentsia

134. re\_\_\_\_\_nt by a diagram      *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
135. en\_\_\_\_\_ly satisfied with the meal      *adv.* completely
136. electronic de\_\_\_\_e      *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
137. 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
138. manually op\_\_\_\_\_e a machine      *v.* to work in a particular way; to supervise something
139. fashion ac\_\_\_\_\_ry      *n.* an additional item or object that enhances or complements something else; a supplementary component or attachment; a nonessential but desirable item or feature
140. weak fou\_\_\_\_\_on      *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
141. dem\_\_\_\_\_te mastery      *v.* to display something or give an exhibition to an interested audience
142. mental ari\_\_\_\_\_ic      *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

ANSWERS: 134. represent, 135. entirely, 136. device, 137. charity, 138. operate, 139. accessory, 140. foundation, 141. demonstrate, 142. arithmetic

143. a political rev\_\_\_\_\_on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
144. universal es\_\_\_\_\_e *n.* the basic or most important part or quality of something that makes it what it is
145. his conclusion was ob\_\_\_\_\_s *adj.* easy to see, discover or understand
146. ca\_\_\_\_\_te his credit score *v.* to judge or find out the amount or number of something by using mathematics
147. sy\_\_\_\_l for happiness *n.* something visible that is used to represent something else
148. s\_\_n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
149. mic\_\_\_\_\_pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
150. a rid\_\_\_\_\_us amount of money *adj.* very silly or unreasonable and deserving to be laughed at
151. mat\_\_\_\_\_cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
152. en\_\_\_\_\_us potential *adj.* extremely large or great
153. defense me\_\_\_\_\_sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 143. revolution, 144. essence, 145. obvious, 146. calculate, 147. symbol, 148. scan, 149. microscope, 150. ridiculous, 151. mathematics, 152. enormous, 153. mechanism

154. me\_\_l fabrication *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
155. the in\_\_\_\_al economy *adj.* of or relating to the inside of something
156. the in\_\_\_\_\_on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
157. op\_\_\_\_\_e 24 hours a day *v.* to work in a particular way; to supervise something
158. a com\_\_\_\_\_ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
159. 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
160. diesel loc\_\_\_\_\_ve *n.* a powered rail vehicle used for pulling trains or railway cars; an engine that produces the necessary power for the train to move on the tracks
161. fi\_\_\_e away the whole afternoon *v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage
162. r\_m into the ice *v.* to strike or push forcefully, often to cause damage; to batter or break open a door or barrier using brute force

ANSWERS: 154. metal, 155. internal, 156. invention, 157. operate, 158. complicated, 159. stack, 160. locomotive, 161. fiddle, 162. ram



163. marketing dy\_\_\_o      *n.* a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field
164. computer gr\_\_\_\_\_cs      *n.* images, designs, or drawings used in websites, books, magazines, etc.
165. n\_\_b with cold      *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
166. com\_\_\_\_\_ty theory      *n.* the state or quality of being complicated or intricate and difficult to understand
167. individual ins\_\_\_\_\_on      *n.* detailed direction, order, etc., on how to do or use something
168. historical ar\_\_\_\_\_es      *n.* a collection of historical documents or records providing information about a place, institution, or group of people
169. c\_g in the system      *n.* a tooth or projection on a gearwheel or sprocket, which transmits force and motion between moving parts; a person who plays a small or subordinate but essential role in an organization or system
170. dawn of a new e\_a      *n.* a period that is distinct from others, typically in history
171. an air-cooled en\_\_\_e      *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
172. a c\_\_p of wood      *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

ANSWERS: 163. dynamo, 164. graphics, 165. numb, 166. complexity, 167. instruction, 168. archives, 169. cog, 170. era, 171. engine, 172. chip

173. mu\_\_\_\_ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
174. cu\_\_\_\_r of a library *n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
175. a dy\_\_\_o of productivity *n.* a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field
176. congressional h\_\_k *n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
177. li\_\_\_\_\_me ban from the sport *n.* the duration of someone's life or something's existence;
178. ant\_\_\_\_\_te your kind cooperation *v.* to expect or predict that something will happen; to tell in advance
179. inc\_\_\_\_\_le amount *adj.* unbelievable; enormous
180. an infinite de\_\_\_\_\_l *adj.* based on or counted in the number 10
181. beam of el\_\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
182. na\_\_\_\_\_le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
183. clear in\_\_\_\_\_on *n.* something you want to do and are going to do

ANSWERS: 173. multiply, 174. curator, 175. dynamo, 176. hawk, 177. lifetime, 178. anticipate, 179. incredible, 180. decimal, 181. electron, 182. nanoscale, 183. intention

184. material we\_\_\_h *n.* a large amount of money, property, or other things that someone or an organization owns
185. pr\_\_e number *adj.* main or most important; basic; (prime number, noun) a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers (e.g., 2, 3, 5, 7, 11 and 13)
186. un\_\_\_\_\_t garden *adj.* untidy, disheveled, or messy in appearance; not properly cared for or maintained
187. pr\_\_\_\_\_le cause of a fire *adj.* likely to happen or likely to be true
188. fu\_\_\_\_\_on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
189. 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
190. co\_\_\_\_\_e my thoughts *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
191. gets m\_d easily *adj.* insane, especially due to a mental illness; very angry

ANSWERS: 184. wealth, 185. prime, 186. unkempt, 187. probable, 188. function, 189. graph, 190. compose, 191. mad

192. l\_\_p to a conclusion *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
193. d\_\_g a bell *v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food
194. sub\_\_\_\_\_on equation *n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities
195. si\_\_\_\_\_n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
196. 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
197. become increasingly com\_\_\_\_\_ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
198. pu\_\_h a ticket *v.* to strike someone or something with one's fist; to make a hole in something
199. provide ac\_\_\_\_\_te information *adj.* correct and exact in all details
200. a m\_d person *adj.* insane, especially due to a mental illness; very angry

ANSWERS: 192. leap, 193. ding, 194. subtraction, 195. silicon, 196. fortune, 197. complicated, 198. punch, 199. accurate, 200. mad

201. decimal ari\_\_\_\_\_ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
202. fa\_\_\_y accurate *adv.* to a certain extent or degree; without favoring one party in an evenhanded manner
203. hi\_\_\_\_\_ic accomplishment *adj.* famous or significant in history, or potentially so
204. ana\_\_\_\_\_al approach *adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
205. arc\_\_\_\_\_ure design *n.* the art and science of designing and constructing buildings
206. ele\_\_\_\_\_cs industry *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
207. in\_\_\_e criticism *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
208. l\_\_p of faith *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
209. l\_\_\_m over the global economy *v.* to appear or take shape as a large, especially in a frightening way

ANSWERS: 201. arithmetic, 202. fairly, 203. historic, 204. analytical, 205. architecture, 206. electronics, 207. invite, 208. leap, 209. loom

210. the \_\_\_\_\_al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
211. si\_\_\_\_\_te climate change *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
212. 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
213. a rid\_\_\_\_\_us suggestion *adj.* very silly or unreasonable and deserving to be laughed at
214. stay phy\_\_\_\_\_ly fit *adv.* in a way related to a person's body or appearance rather than their mind
215. c\_\_m manner *adj.* not excited, angry, or nervous; free from wind, large waves
216. flow of el\_\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
217. double-digit sub\_\_\_\_\_on *n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities
218. inc\_\_\_\_\_ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
219. a selfish de\_\_\_\_\_on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options

ANSWERS: 210. theoretical, 211. simulate, 212. stack, 213. ridiculous, 214. physically, 215. calm, 216. electron, 217. subtraction, 218. incredibly, 219. decision

220. co\_\_\_\_\_e an essay      *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
221. a bi\_\_\_\_y number      *n.* a system of numbers that uses only two digits, 0 and 1
222. sy\_\_\_\_l color      *n.* something visible that is used to represent something else
223. ad\_\_\_\_\_on of vectors      *n.* the act or process of adding something to something else; the process of adding numbers
224. have a high af\_\_\_\_\_ty      *n.* a natural liking or attraction to something; kinship by marriage or adoption
225. electron mic\_\_\_\_\_pe      *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
226. a cl\_\_\_\_\_c experiment      *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
227. tr\_\_\_\_\_rm heat into power      *v.* to change in outward structure or looks;
228. c\_\_m sea      *adj.* not excited, angry, or nervous; free from wind, large waves
229. f\_\_t accomplishment      *n.* a notable or impressive achievement, especially one that requires great skill or bravery
230. si\_\_\_\_\_te a future scenario      *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 220. compose, 221. binary, 222. symbol, 223. addition, 224. affinity, 225. microscope, 226. classic, 227. transform, 228. calm, 229. feat, 230. simulate

231. am\_\_\_\_g advances *adj.* extremely surprising, especially in a way that you like or admire
232. d\_\_g a ling *v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food
233. dem\_\_\_\_\_te a difference *v.* to display something or give an exhibition to an interested audience
234. ca\_\_\_\_\_e leader *adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
235. a per\_\_\_\_\_ve view *n.* a confident attitude toward something; a particular style of thinking about something
236. ca\_\_\_\_\_te the distance *v.* to judge or find out the amount or number of something by using mathematics
237. crystalline si\_\_\_\_\_n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
238. the most am\_\_\_\_g feeling *adj.* extremely surprising, especially in a way that you like or admire
239. tr\_\_\_\_\_te the emotion to a movement *v.* to convert or change words into another language
240. complete a pr\_\_\_\_\_pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

ANSWERS: 231. amazing, 232. ding, 233. demonstrate, 234. capable, 235. perspective, 236. calculate, 237. silicon, 238. amazing, 239. translate, 240. prototype



241. the a\_\_h of a person's foot      *n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building
242. I don't care a c\_\_p      *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
243. n\_\_d neck      *n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
244. the nu\_\_\_\_\_al keypad      *adj.* relating to, expressed, or denoted by a number
245. re\_\_\_\_\_se a used car      *v.* to use something again for a different purpose than it was originally intended
246. p\_\_l a fruit      *v.* to remove the skin of fruit and vegetables

ANSWERS: 241. arch, 242. chip, 243. nerd, 244. numerical, 245. repurpose, 246. peel

## Session 3: Fill in the Blanks

1. The motion of planets can be described using \_\_\_\_\_ mechanics.  
*adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
2. The \_\_\_\_ in the machine broke down, causing a delay in production.  
*n.* a tooth or projection on a gearwheel or sprocket, which transmits force and motion between moving parts; a person who plays a small or subordinate but essential role in an organization or system
3. 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
4. She was struggling to make a \_\_\_\_\_ between two job offers.  
*n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
5. Absolute zero is the lowest \_\_\_\_\_ temperature.  
*adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
6. She bought a new handbag as a stylish \_\_\_\_\_ for her outfit.  
*n.* an additional item or object that enhances or complements something else; a supplementary component or attachment; a nonessential but desirable item or feature
7. A person who has been declared incompetent should have legal \_\_\_\_\_.  
*n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

ANSWERS: 1. Newtonian, 2. cog, 3. feat, 4. decision, 5. theoretical, 6. accessory, 7. representation

8. Necessity is the mother of \_\_\_\_\_.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
9. She was invited to many exclusive \_\_\_\_\_ and social events.
- n.* an evening party or reception, typically in a private house
10. The storm had \_\_\_\_\_ all paint off the siding.
- v.* to remove the skin of fruit and vegetables
11. \_\_\_\_\_ a number by itself twice.
- v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
12. The \_\_\_\_\_ at the library contain a wealth of information about the city's history.
- n.* a collection of historical documents or records providing information about a place, institution, or group of people
13. I left my alpha \_\_\_\_\_ at home, so I had to borrow one from a classmate to finish my math homework.
- n.* a small electronic device for making arithmetic calculations
14. The athlete was able to \_\_\_\_\_ over the hurdle with ease.
- v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
15. We want to \_\_\_\_\_ you to our annual charity event.
- v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

ANSWERS: 8. invention, 9. soirées, 10. peeled, 11. Multiply, 12. archives, 13. calculator, 14. leap, 15. invite

16. 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
17. The creature's \_\_\_\_\_ in the horror movie shocked the audience.
- n.* a thing that is very ugly, shocking, or offensive; something so large or complex that it seems difficult to understand or control
18. The \_\_\_\_\_ of exercise is important for maintaining good health.
- n.* the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency
19. My left arm became \_\_\_\_\_.
- adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
20. The \_\_\_\_\_ of the building was cracked and needed to be repaired.
- n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
21. His \_\_\_\_\_ on the effects of climate change won several awards.
- n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject
22. It was the first time in a long time that I felt truly \_\_\_\_\_ and at peace.
- adj.* not excited, angry, or nervous; free from wind, large waves

ANSWERS: 16. plot, 17. monstrosity, 18. regularity, 19. numb, 20. foundation, 21. thesis, 22. calm

23. The invention of the smartphone \_\_\_\_\_ the way we communicate with each other.
- v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas
24. I tried to \_\_\_\_\_ the efficiency of the investment.
- v. to make a mathematical calculation
25. 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
26. Shakespeare's output of poetry was \_\_\_\_\_.
- adj. extremely large or great
27. Her response revealed \_\_\_\_\_ idiocy.
- adj. unbelievable; enormous
28. The golfer recorded an \_\_\_\_\_ distance.
- adj. extremely surprising, especially in a way that you like or admire
29. We elected him to \_\_\_\_\_ us at the international conference.
- v. to speak, act, or be present on behalf of another person or group; to form or constitute
30. She is highly \_\_\_\_\_ of handling multiple tasks at once.
- adj. having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise

ANSWERS: 23. revolutionized, 24. compute, 25. graph, 26. enormous, 27. incredible, 28. amazing, 29. represent, 30. capable

31. This process improves the strength of the metal by controlling the \_\_\_\_\_ lattice structure of the metal.  
*adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
32. \_\_\_\_\_ the bandage tightly around the injured arm.  
*v.* to cover or enclose something entirely with paper, cloth, or other material
33. The more \_\_\_\_\_ you are, the more people around you look at you with envy and jealousy.  
*adj.* extremely clever, skilled, or impressive
34. University teaches the art of understanding the \_\_\_\_\_ of the matter.  
*n.* the basic or most important part or quality of something that makes it what it is
35. Our CEO's \_\_\_\_\_ are always transparent and straightforward.  
*n.* something you want to do and are going to do
36. Having a \_\_\_\_\_ healthy physique is essential for a great life.  
*adv.* in a way related to a person's body or appearance rather than their mind
37. Political corruption was common throughout the postwar \_\_\_\_\_.  
*n.* a period that is distinct from others, typically in history
38. The powerful \_\_\_\_\_ chugged along the tracks, hauling a long line of freight cars.  
*n.* a powered rail vehicle used for pulling trains or railway cars; an engine that produces the necessary power for the train to move on the tracks

ANSWERS: 31. nanoscale, 32. Wrap, 33. brilliant, 34. essence, 35. intentions, 36. physically, 37. era, 38. locomotive

39. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
40. She was so absorbed in her research that she often had an \_\_\_\_\_ appearance, forgetting even basic grooming.
- adj.* untidy, disheveled, or messy in appearance; not properly cared for or maintained
41. They needed further \_\_\_\_\_ to perform their duties efficiently.
- n.* detailed direction, order, etc., on how to do or use something
42. She was able to \_\_\_\_\_ a free trip to the United States.
- v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage
43. Several cities are experiencing \_\_\_\_\_ high unemployment rates.
- adv.* in a way that is very difficult to believe; exceedingly or extremely
44. A \_\_\_\_\_ engineer is still in demand in many companies.
- adj.* operated by a machine, relating to or concerned with machinery or tools
45. The prime minister canceled visits to other countries to resolve \_\_\_\_\_ disputes.
- adj.* of or relating to the inside of something
46. \_\_\_\_\_ is the second most abundant element on earth after oxygen.
- n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

ANSWERS: 39. determinant, 40. unkempt, 41. instruction, 42. fiddle, 43. incredibly, 44. mechanical, 45. internal, 46. Silicon

47. The old barn was \_\_\_\_\_ into a modern event space.
- v.* to use something again for a different purpose than it was originally intended
48. He displayed the \_\_\_\_\_ symptoms of depression.
- adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
49. The \_\_\_\_\_ by the citizen resulted in a redistribution of wealth.
- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
50. Cancer has \_\_\_\_\_ at the same site.
- v.* to show up again or return after not being heard of or seen for a period of time
51. The construction worker used a \_\_\_\_\_ saw to cut through the stubborn sheet metal.
- n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
52. After a thorough investigation, she has been named as the \_\_\_\_\_ suspect.
- adj.* main or most important; basic; (prime number, noun) a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers (e.g., 2, 3, 5, 7, 11 and 13)
53. The abacus is an ancient counting device that was used for \_\_\_\_\_ calculations.
- n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

ANSWERS: 47. repurposed, 48. classic, 49. revolution, 50. reappeared, 51. metal, 52. prime, 53. arithmetic



54. Human behavior has \_\_\_\_\_ characteristics.

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

55. He was, by nature, a cyber \_\_\_\_\_.

*n.* a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

56. 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

57. We can use this campaign as a bargaining \_\_\_\_\_ in the negotiations.

*n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

58. The voices of the political and academic \_\_\_\_\_ dominated the debate.

*n.* the educated and intellectual elite of society, particularly those involved in cultural or artistic pursuits

59. His father's death changed his whole \_\_\_\_\_ on life.

*n.* a confident attitude toward something; a particular style of thinking about something

60. The \_\_\_\_\_ point separates the whole number from the fractional part.

*adj.* based on or counted in the number 10

61. The flying car is presently in the \_\_\_\_\_ stage.

*n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

ANSWERS: 54. fundamental, 55. nerd, 56. charity, 57. chip, 58. intelligentsia, 59. perspective, 60. decimal, 61. prototype

62. I always carry a backup \_\_\_\_\_ in case my phone runs out of battery.

*n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

63. I accidentally \_\_\_\_\_ my new car door in the parking lot.

*v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food

64. He did \_\_\_\_\_ pen-and-ink drawings in just a few days.

*adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

65. He had painted the wood to \_\_\_\_\_ stone.

*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

66. The brain is an incredibly complex organ that controls the body's \_\_\_\_\_.

*n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

67. Who answers \_\_\_\_\_ knows little.

*adv.* quickly and unexpectedly

68. He is \_\_\_\_\_ and can break down complex problems into manageable parts.

*adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze

ANSWERS: 62. device, 63. dinged, 64. complicated, 65. simulate, 66. function, 67. suddenly, 68. analytical

69. Despite his popularity among the \_\_\_\_\_ he was unpopular with the general public.
- n.* a group of persons with high social status
70. That team signed a center forward who was a ball-\_\_\_\_\_.
- n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
71. After his death, his sons \_\_\_\_\_ his business.
- v.* to receive money, property, or a title from someone after they have died
72. There are \_\_\_\_\_ differences between the two wine-producing regions.
- adj.* easy to see, discover or understand
73. I used an optical \_\_\_\_\_ to observe the small organisms in the water sample.
- n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
74. She had lived through two world wars in her \_\_\_\_\_.
- n.* the duration of someone's life or something's existence;
75. 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
76. The structure is \_\_\_\_\_ of three main components.
- v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

ANSWERS: 69. aristocracy, 70. hawk, 71. inherited, 72. obvious, 73. microscope, 74. lifetime, 75. fortune, 76. composed

77. The rain and thunder are \_\_\_\_\_ today.

*adj.* stupid or not sensible; very angry

78. It seems \_\_\_\_\_ that he has forgotten our scheduled meeting.

*adj.* likely to happen or likely to be true

79. My dream is to become a great \_\_\_\_\_ designer like her.

*n.* images, designs, or drawings used in websites, books, magazines, etc.

80. She \_\_\_\_\_ her friend a favor for helping her move.

*v.* to be under a moral or legal obligation to pay or do something in return for something received;

81. Everyone regarded the theory he advocated as \_\_\_\_\_ but was later proven correct.

*adj.* very silly or unreasonable and deserving to be laughed at

82. The dragon is considered a \_\_\_\_\_ of bravery.

*n.* something visible that is used to represent something else

83. This machine is too difficult to \_\_\_\_\_ for me.

*v.* to work in a particular way; to supervise something

84. He was \_\_\_\_\_ with joy to see the results.

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

85. He has a strong \_\_\_\_\_ for music and plays multiple instruments.

*n.* a natural liking or attraction to something; kinship by marriage or adoption

ANSWERS: 77. crazy, 78. probable, 79. graphics, 80. owes, 81. ridiculous, 82. symbol, 83. operate, 84. mad, 85. affinity

86. The \_\_\_\_\_ value of Pi is approximately 3.14.

*adj.* relating to, expressed, or denoted by a number

87. The \_\_\_\_\_ inequality was unavoidable.

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

88. My father's death \_\_\_\_\_ my life completely.

*v.* to change in outward structure or looks;

89. He \_\_\_\_\_ the wall in anger.

*v.* to strike someone or something with one's fist; to make a hole in something

90. Which \_\_\_\_\_ of the company do you work in?

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

91. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.

*n.* the state or quality of being complicated or intricate and difficult to understand

92. The Chinese people have accomplished several \_\_\_\_\_ feats.

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

93. She stood on the podium and \_\_\_\_\_ an audience.

*v.* to examine something hastily, with the eyes or with a machine, to get information

94. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.

*n.* a tiny particle with the negative electrical charge

ANSWERS: 86. numerical, 87. wealth, 88. transformed, 89. punched, 90. division, 91. complexity, 92. historic, 93. scanned, 94. electron

95. He deals \_\_\_\_\_ with his employees.

*adv.* to a certain extent or degree; without favoring one party in an evenhanded manner

96. The feudal \_\_\_\_\_ had ruled the land for many years.

*n.* a person who has general authority, control, or power over others; a man of noble rank or high office

97. The city is known for its impressive \_\_\_\_\_ and beautiful old buildings.

*n.* the art and science of designing and constructing buildings

98. The girl \_\_\_\_\_ a garland for her friend.

*v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

99. The official transcript contains \_\_\_\_\_ academic records.

*adj.* correct and exact in all details

100. \_\_\_\_\_ the text from Italian into English.

*v.* to convert or change words into another language

101. The \_\_\_\_\_ at the parking lot directed me to an available parking spot

*n.* a person who is employed to provide a service or perform tasks, often in a public place, such as a flight attendant, parking attendant, or hospital attendant

102. The policies he announces can be the \_\_\_\_\_ of economic growth in the country.

*n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

ANSWERS: 95. fairly, 96. lord, 97. architecture, 98. weaves, 99. accurate, 100. Translate, 101. attendant, 102. engine

103. The issue of divorce \_\_\_\_\_ large in his mind.

*v.* to appear or take shape as a large, especially in a frightening way

104. The electrical \_\_\_\_\_ produced enough power to light up the entire city.

*n.* a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field

105. He discovered unique \_\_\_\_\_ for photochemical reactions.

*n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

106. 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

107. The \_\_\_\_\_ bears the weight of the overhead bridge.

*n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building

108. He's utterly \_\_\_\_\_ with his promotion.

*v.* to fill the mind of someone continually so that one can't think of anything else

109. He couldn't \_\_\_\_\_ the actual value of the artwork.

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

110. The \_\_\_\_\_ of expenses from revenue resulted in a net profit for the company.

*n.* the process or action of removing one number from another; the mathematical operation of finding the difference between two numbers or quantities

ANSWERS: 103. loomed, 104. dynamo, 105. mechanisms, 106. stack, 107. arch, 108. obsessed, 109. calculate, 110. subtraction

111. A \_\_\_\_\_ star is a system in which two stars revolve around each other.

*n.* a system of numbers that uses only two digits, 0 and 1

112. The \_\_\_\_\_ occasionally preaches at this church.

*n.* a person appointed to or a job of a head of a government department

113. The \_\_\_\_\_ principle of every business was identical.

*adj.* significant as a cause or basis of something but not immediately apparent or stated clearly

114. Later, his claim was found to be \_\_\_\_\_ false.

*adv.* completely

115. The new office building was \_\_\_\_\_ and could fit hundreds of employees comfortably.

*adj.* extremely large; gigantic; huge; excessively big

116. We \_\_\_\_\_ heavy snowfall tomorrow.

*v.* to expect or predict that something will happen; to tell in advance

117. The museum \_\_\_\_\_ conserved the ancient manuscripts.

*n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.

118. How can you \_\_\_\_\_ that the earth is a sphere?

*v.* to display something or give an exhibition to an interested audience

119. He was so hungry from the long journey that he had a \_\_\_\_\_ appetite.

*adj.* extremely large

ANSWERS: 111. binary, 112. minister, 113. underlying, 114. entirely, 115. humongous, 116. anticipate, 117. curator, 118. demonstrate, 119. gigantic



120. The company specializes in manufacturing and selling cutting-edge \_\_\_\_\_.

- n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

121. The car \_\_\_\_\_ into the wall, causing significant damage.

- v.* to strike or push forcefully, often to cause damage; to batter or break open a door or barrier using brute force

122. In \_\_\_\_\_ private corporations provide healthcare services.

- n.* the act or process of adding something to something else; the process of adding numbers

123. He has a flair for \_\_\_\_\_.

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

ANSWERS: 120. electronics, 121. rammed, 122. addition, 123. mathematics