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Vocabulary Builder Reference from...

Eduardo Sáenz de Cabezón: Math is forever | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

mathematics

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

synonym: arithmetic, calculation, calculus

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

He has a flair for **mathematics**.

inevitably

adv. in a manner that cannot be avoided or prevented

synonym: unavoidably, necessarily, surely

(1) **inevitably** decline with age, (2) **inevitably** reach the consumer

Because of his excellent performance, he will **inevitably** be promoted.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

synonym: chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**

Your **conversation** reflects your thoughts.

phrase

n. a group of words that mean something specific when used together

synonym: expression, idiom, term

(1) ready-made **phrases**, (2) noun **phrase**
We bought a Spanish **phrase** book.

assume

v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

synonym: guess, presume, suppose

(1) **assume** a lousy attitude to his boss, (2) **assume** an important role

The following example **assumes** that the capacity of each battery is the same.

defensive

adj. used or intended to protect someone or something against attack or aggression

synonym: protective, watchful, opposing

(1) assume the **defensive**, (2) **defensive** weapons

Boxing fans often criticize his **defensive** stance.

logic

n. a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

synonym: reasoning, reason, ratiocination

(1) an indisputable **logic**, (2) a demonstration in **logic**

There's no **logic** in his description.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

poetry

n. poems in general as a genre of literature

synonym: ode, poesy, verse

(1) modern **poetry**, (2) book of **poetry**

Different cultures have different comfortable word rhythms, so the composition of **poetry** varies greatly.

hardy

adj. able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient

synonym: tough, sturdy, resilient

(1) **hardy** plants, (2) **hardy** breed

The **hardy** construction workers worked tirelessly in the scorching heat to complete the project.

instance

n. a particular example or single occurrence of something

synonym: example, sample, illustration

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

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

defend

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

synonym: protect, guard, support

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

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

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

creditor

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

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

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

prime

adj. main or most important; basic

synonym: excellent, exceptional, premium

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

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

belong

v. to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate place

synonym: fit, be appropriate, be suitable

(1) **belong** to different species, (2) **belong** to a group

All the books in this section **belong** to the library's rare collection and must be handled carefully.

claim

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

synonym: assert, declare, maintain

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

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

structure

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

synonym: construction, architecture, establishment

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

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

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

technique

n. a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

advance

v. to go or move forward; to develop in a positive way
synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

permanent

adj. lasting for a long time without essential change
synonym: lasting, ceaseless, endless

(1) literature of **permanent** value, (2) **permanent** life insurance

She is searching for a **permanent** residence.

intuition

n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
synonym: instinct, gut feeling, sixth sense

(1) creative **intuition**, (2) **intuition** research

Some studies suggest that people's **intuitions** can be influenced by their experiences and biases.

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym: imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

tame

v. to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training

synonym: domesticate, soften, (adjective) harmless

(1) **tame** a wild beast, (2) a **tame** animal

We have to **tame** substantial financial deficits at first.

normally

adv. usually; under normal conditions

synonym: commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much

I don't **normally** take a vacation in the middle of summer.

extend

v. to broaden in scope, range, or area

synonym: prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line

Her visit will **extend** from Monday to Friday.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

pitfall

n. a hidden or unsuspected danger or difficulty; a trap or snare

synonym: trap, snare, hazard

(1) potential **pitfall**, (2) **pitfall** to be avoided

One of the biggest **pitfalls** of starting a new business is underestimating the costs.

oncology

n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies

synonym: cancer treatment, study of tumors

(1) **oncology** center, (2) modern **oncology** treatment

The pharmaceutical company unveiled its latest breakthrough drug for the **oncology** market.

envy

v. to experience a feeling of jealousy or resentment towards someone because of their possessions,

qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success

synonym : covet, resent, grudge

(1) **envy** his success, (2) feeling **envy** toward him
I can't help but **envy** my friend's ability to stay calm in stressful situations.

rigor

n. strictness or severity in opinion, temper, or judgment

synonym : strictness, exactness, accuracy

(1) the **rigor** of the law, (2) academic **rigor**

When the dead body was found, **rigor** mortis had already begun.

eternal

adj. being without beginning or end; lasting forever

synonym : endless, everlasting, undying

(1) the hope of **eternal** life, (2) **eternal** quarreling

In every civilization, rulers have tried everything possible to obtain **eternal** life.

diamond

n. a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond

synonym : gemstone, jewel, precious stone

(1) **diamond** ring, (2) **diamond** necklace

The engagement ring was adorned with a large, sparkling **diamond**.

definition

n. a concise explanation of the meaning of a word, phrase, or symbol

synonym : description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word

Parallel lines are, by **definition**, lines on the same plane that never cross.

theorem

n. a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning

synonym : proof, proposition, formula

(1) corollary **theorem**, (2) Pythagorean **theorem**

Gödel's incompleteness **theorems** prove the limitations of formal systems, including mathematical ones.

triangle

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

synonym : trilateral, delta, triad

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

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

hypotenuse

n. in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides

synonym : oblique, diagonal, slant

(1) right-angled **hypotenuse**, (2) calculate the **hypotenuse**

To find the **hypotenuse** length, you can use the Pythagorean theorem.

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.

devote

v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose

synonym : commit, dedicate, apply

(1) **devote** all of my energies, (2) **devote** my own life

He **devoted** himself to studying the history of ancient civilizations.

mere

adj. used to emphasize how insignificant or minor someone or something is

synonym : bare, minor, sheer

(1) **mere** acquaintance, (2) **mere** incident

He lost the election by **mere** votes.

conjecture

n. an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof

synonym : theory, guess, speculation

(1) **conjecture** theory, (2) scientific **conjecture**

There was much **conjecture** about the cause of the fire, but the investigation is still ongoing.

proof

n. a fact or piece of information that shows something is true or exists

synonym : testimony, evidence, assurance

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

Proof is better than argument.

enormous

adj. extremely large or great

synonym : huge, giant, gigantic

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

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

infinite

adj. unlimited or very great; impossible to measure

synonym : boundless, countless, limitless

(1) **infinite** appetite, (2) **infinite** in supply

The battle had an **infinite** impact on the nation.

gap

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

synonym : opening, lacuna, spread

(1) the **gap** between ideal and reality, (2) distance **gap**

Many people are working together to close the gender **gap**.

hexagon

n. a six-sided polygon with six angles and six sides of equal length

synonym : hexahedron, six-sided figure, six-gon

(1) **hexagon** head bolt, (2) **hexagon** pattern

The honeycomb structure of a beehive is made up of **hexagons**.

split

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

synonym : break, divide, break apart

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

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

honeycomb

n. a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young

synonym : hexagonal, beehive, lattice

(1) **honeycomb** lattice, (2) **honeycomb** pattern

The beehive was made of an intricate **honeycomb** pattern.

dimension

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

synonym : extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

cube

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

synonym : block, square, cell

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

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

sphere

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

synonym : ball, globe, scope

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

The **sphere** of the earth is divided into several layers

including the crust, mantle, and core.

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.

Kelvin

n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

synonym: K, degree

(1) **Kelvin** scale, (2) **Kelvin** measurement

The scientist cooled the sample to just a couple of **Kelvin** to observe quantum effects.

degree

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

truncate

v. to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it

synonym: shorten, cut back, abbreviate

(1) **truncate** text, (2) **truncate** a number to 2 decimal places

You can use a command line tool to **truncate** the long file name.

octahedron

n. a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle

synonym: eight-sided figure, polyhedron

(1) **octahedron** crystal, (2) interconnected **octahedrons**
The building's design featured an **octahedron-shaped** atrium.

geometric

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

synonym: mathematical, symmetrical, regular

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

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

medal

n. a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor

synonym: award, decoration, badge

(1) gold **medal**, (2) a prize **medal**

She was proud to receive a **medal** for her hard work and dedication to the sport.

Session 2: Spelling

- | | |
|---|--|
| 1. corollary th____m | <i>n.</i> a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning |
| 2. he____n head bolt | <i>n.</i> a six-sided polygon with six angles and six sides of equal length |
| 3. calculate the hyp____se | <i>n.</i> in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides |
| 4. academic ri__r | <i>n.</i> strictness or severity in opinion, temper, or judgment |
| 5. ine____ly reach the consumer | <i>adv.</i> in a manner that cannot be avoided or prevented |
| 6. the ri__r of the law | <i>n.</i> strictness or severity in opinion, temper, or judgment |
| 7. as____e a lousy attitude to his boss | <i>v.</i> to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance |
| 8. cl__m responsibility | <i>v.</i> to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true |

ANSWERS: 1. theorem, 2. hexagon, 3. hypotenuse, 4. rigor, 5. inevitably, 6. rigor, 7. assume, 8. claim

9. sp___e of influence *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
10. ex___d a line *v.* to broaden in scope, range, or area
11. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
12. pe_____nt life insurance *adj.* lasting for a long time without essential change
13. notable in_____ce *n.* a particular example or single occurrence of something
14. a ge_____ic proof *adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
15. Pythagorean th_____m *n.* a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning
16. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
17. t__e a wild beast *v.* to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training

ANSWERS: 9. sphere, 10. extend, 11. structure, 12. permanent, 13. instance, 14. geometric, 15. theorem, 16. structure, 17. tame

18. false cl__m *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
19. interconnected oct_____ons *n.* a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle
20. be___g to different species *v.* to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate place
21. pi_____l to be avoided *n.* a hidden or unsuspected danger or difficulty; a trap or snare
22. ho_____mb lattice *n.* a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
23. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
24. in_____te appetite *adj.* unlimited or very great; impossible to measure
25. on_____gy center *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
26. m___e acquaintance *adj.* used to emphasize how insignificant or minor someone or something is

ANSWERS: 18. claim, 19. octahedron, 20. belong, 21. pitfall, 22. honeycomb, 23. degree, 24. infinite, 25. oncology, 26. mere

27. de___e all of my energies *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
28. an indisputable lo__c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
29. oct_____on crystal *n.* a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle
30. Ke___n scale *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
31. a cr__y scheme *adj.* stupid or not sensible; very angry
32. cr__y about cars and racing *adj.* stupid or not sensible; very angry
33. a geometric pr__f *n.* a fact or piece of information that shows something is true or exists
34. a prize me__l *n.* a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor
35. a demonstration in lo__c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

ANSWERS: 27. devote, 28. logic, 29. octahedron, 30. Kelvin, 31. crazy, 32. crazy, 33. proof, 34. medal, 35. logic

36. complete no____ly *adv.* usually; under normal conditions
37. deputy pr__e minister *adj.* main or most important; basic
38. pr__e number *adj.* main or most important; basic
39. ha__y breed *adj.* able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
40. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
41. the hope of et____l life *adj.* being without beginning or end; lasting forever
42. in____te in supply *adj.* unlimited or very great; impossible to measure
43. potential pi____l *n.* a hidden or unsuspected danger or difficulty; a trap or snare
44. not no____ly drink much *adv.* usually; under normal conditions
45. business sp____e *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
46. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
47. literature of pe_____nt value *adj.* lasting for a long time without essential change
48. ready-made ph____es *n.* a group of words that mean something specific when used together

ANSWERS: 36. normally, 37. prime, 38. prime, 39. hardy, 40. mathematics, 41. eternal, 42. infinite, 43. pitfall, 44. normally, 45. sphere, 46. conversation, 47. permanent, 48. phrase

49. con_____re theory *n.* an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof
50. de____d my country *v.* to protect someone or something from attack, criticism, danger, etc.
51. e__y his success *v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
52. gold me__l *n.* a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor
53. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
54. m__e incident *adj.* used to emphasize how insignificant or minor someone or something is
55. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
56. social di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

ANSWERS: 49. conjecture, 50. defend, 51. envy, 52. medal, 53. achieve, 54. mere, 55. technique, 56. distance

57. di____d necklace *n.* a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond
58. as___e an important role *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
59. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
60. driving di____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
61. he____n pattern *n.* a six-sided polygon with six angles and six sides of equal length
62. bachelor's de___e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
63. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
64. de_____ve weapons *adj.* used or intended to protect someone or something against attack or aggression
65. 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: 57. diamond, 58. assume, 59. conversation, 60. distance, 61. hexagon, 62. degree, 63. split, 64. defensive, 65. lord

66. ex__d the warranty *v.* to broaden in scope, range, or area
67. en___us potential *adj.* extremely large or great
68. in_____on research *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
69. book of po___y *n.* poems in general as a genre of literature
70. ready to co_____se *v.* to fall down or give way suddenly, often after breaking apart
71. tr_____te text *v.* to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it
72. ge_____ic pattern *adj.* relating to or having the characteristics of geometry (= the shape, properties, and relations of points, lines, surfaces, solids)
73. c__e root *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
74. documentary pr__f *n.* a fact or piece of information that shows something is true or exists
75. love tr_____le *n.* a three-sided polygon with three angles; something that has three sides or parts

ANSWERS: 66. extend, 67. enormous, 68. intuition, 69. poetry, 70. collapse, 71. truncate, 72. geometric, 73. cube, 74. proof, 75. triangle

76. a te_____ue in martial arts
n. a particular way or art of doing something that needs skill
77. ine_____ly decline with age
adv. in a manner that cannot be avoided or prevented
78. the stock market co_____sed
v. to fall down or give way suddenly, often after breaking apart
79. a t__e animal
v. to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training
80. tr_____le shape
n. a three-sided polygon with three angles; something that has three sides or parts
81. et_____l quarreling
adj. being without beginning or end; lasting forever
82. be_____g to a group
v. to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate place
83. for in_____ce
n. a particular example or single occurrence of something
84. cr_____ve writing
adj. relating to or involving the use of skill and original and unusual ideas to create something
85. a precise def_____on
n. a concise explanation of the meaning of a word, phrase, or symbol
86. de_____e my own life
v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose

ANSWERS: 76. technique, 77. inevitably, 78. collapse, 79. tame, 80. triangle, 81. eternal, 82. belong, 83. instance, 84. creative, 85. definition, 86. devote

87. modern po___y *n.* poems in general as a genre of literature
88. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
89. noun ph___e *n.* a group of words that mean something specific when used together
90. assume the de_____ve *adj.* used or intended to protect someone or something against attack or aggression
91. ho_____mb pattern *n.* a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
92. a con_____ly varying mind *adv.* all the time
93. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
94. ad_____e the technology *v.* to go or move forward; to develop in a positive way
95. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
96. bankrupt cr_____or *n.* a person, company, etc. to whom a debtor owes money
97. a young l__d *n.* a person who has general authority, control, or power over others; a man of noble rank or high office
98. distance g_p *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

ANSWERS: 87. poetry, 88. mathematics, 89. phrase, 90. defensive, 91. honeycomb, 92. constantly, 93. creative, 94. advance, 95. definition, 96. creditor, 97. lord, 98. gap

99. di____d ring *n.* a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond
100. ac____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
101. the cr____or's claims *n.* a person, company, etc. to whom a debtor owes money
102. ice c__e *n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
103. a con____ly innovative enterprise *adv.* all the time
104. scientific con____re *n.* an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof
105. de____d against a threat *v.* to protect someone or something from attack, criticism, danger, etc.
106. the crosswise di____on *n.* a measurable extent of a particular kind, such as width, height, or length
107. modern on____gy treatment *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies

ANSWERS: 99. diamond, 100. achieve, 101. creditor, 102. cube, 103. constantly, 104. conjecture, 105. defend, 106. dimension, 107. oncology

108. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
109. creative in_____on *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
110. right-angled hyp_____se *n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides
111. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
112. feeling e__y toward him *v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
113. the g_p between ideal and reality *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
114. ha__y plants *adj.* able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
115. en_____us amount *adj.* extremely large or great

ANSWERS: 108. dimension, 109. intuition, 110. hypotenuse, 111. split, 112. envy, 113. gap, 114. hardy, 115. enormous

116. Ke___n measurement *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
117. tr____te a number to 2 decimal places *v.* to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it
118. ad____e a cooperative relationship *v.* to go or move forward; to develop in a positive way

ANSWERS: 116. Kelvin, 117. truncate, 118. advance

Session 3: Fill in the Blanks

1. One of the biggest _____ of starting a new business is underestimating the costs.
n. a hidden or unsuspected danger or difficulty; a trap or snare

2. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

3. He wants to _____ ownership of the abandoned property.
v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

4. Gödel's incompleteness _____ prove the limitations of formal systems, including mathematical ones.
n. a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning

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

6. When the dead body was found, _____ mortis had already begun.
n. strictness or severity in opinion, temper, or judgment

7. Because of his excellent performance, he will _____ be promoted.
adv. in a manner that cannot be avoided or prevented

ANSWERS: 1. pitfalls, 2. mathematics, 3. claim, 4. theorems, 5. instances, 6. rigor, 7. inevitably

8. 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
9. _____ is better than argument.
n. a fact or piece of information that shows something is true or exists
10. Parallel lines are, by _____ lines on the same plane that never cross.
n. a concise explanation of the meaning of a word, phrase, or symbol
11. The following example _____ that the capacity of each battery is the same.
v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
12. After a thorough investigation, she has been named as the _____ suspect.
adj. main or most important; basic
13. Companies often _____ their shares to lower the stock price and encourage investors to buy.
v. to divide, or to make something divide into two or more parts, especially along a particular line
14. There's no _____ in his description.
n. a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
15. She received her _____ in psychology from the university.
n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

ANSWERS: 8. lord, 9. Proof, 10. definition, 11. assumes, 12. prime, 13. split, 14. logic, 15. degree

16. The rain and thunder are _____ today.

adj. stupid or not sensible; very angry

17. The _____ construction workers worked tirelessly in the scorching heat to complete the project.

adj. able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient

18. The scientist cooled the sample to just a couple of _____ to observe quantum effects.

n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

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

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

20. I don't _____ take a vacation in the middle of summer.

adv. usually; under normal conditions

21. All the books in this section _____ to the library's rare collection and must be handled carefully.

v. to be the property of someone or something; to be a member or part of a group; to be in the proper or appropriate place

22. The pharmaceutical company unveiled its latest breakthrough drug for the _____ market.

n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies

ANSWERS: 16. crazy, 17. hardy, 18. Kelvin, 19. structure, 20. normally, 21. belong, 22. oncology

23. The building's design featured an _____ atrium.
- n.* a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle
24. Scientific knowledge will _____ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
25. I cut the cheese into small _____ for the salad.
- n.* a three-dimensional shape with six square faces that are all equal in size; (of mathematics) the result of multiplying the number by itself three times
26. Some studies suggest that people's _____ can be influenced by their experiences and biases.
- n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
27. There was much _____ about the cause of the fire, but the investigation is still ongoing.
- n.* an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof
28. Different cultures have different comfortable word rhythms, so the composition of _____ varies greatly.
- n.* poems in general as a genre of literature
29. To find the _____ length, you can use the Pythagorean theorem.
- n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides

ANSWERS: 23. octahedron-shaped, 24. advance, 25. cubes, 26. intuitions, 27. conjecture, 28. poetry, 29. hypotenuse

30. The battle had an _____ impact on the nation.

adj. unlimited or very great; impossible to measure

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

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

32. Many people are working together to close the gender _____.

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

33. The engagement ring was adorned with a large, sparkling _____.

n. a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond

34. I can't help but _____ my friend's ability to stay calm in stressful situations.

v. to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success

35. The beehive was made of an intricate _____ pattern.

n. a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young

36. The honeycomb structure of a beehive is made up of _____.

n. a six-sided polygon with six angles and six sides of equal length

ANSWERS: 30. infinite, 31. sphere, 32. gap, 33. diamond, 34. envy, 35. honeycomb, 36. hexagons

37. The mobile application industry is _____ changing.

adv. all the time

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

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

39. She was proud to receive a _____ for her hard work and dedication to the sport.

n. a flat, usually circular piece of metal or other material that is often given as an award or commemoration for an achievement, victory, or honor

40. He lost the election by _____ votes.

adj. used to emphasize how insignificant or minor someone or something is

41. Shakespeare's output of poetry was _____.

adj. extremely large or great

42. In every civilization, rulers have tried everything possible to obtain _____ life.

adj. being without beginning or end; lasting forever

43. The roof finally _____ after three days and three nights of heavy snowfall.

v. to fall down or give way suddenly, often after breaking apart

44. Your _____ reflects your thoughts.

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

45. She is searching for a _____ residence.

adj. lasting for a long time without essential change

ANSWERS: 37. constantly, 38. defend, 39. medal, 40. mere, 41. enormous, 42. eternal, 43. collapsed, 44. conversation, 45. permanent

46. Her visit will _____ from Monday to Friday.

v. to broaden in scope, range, or area

47. We have to _____ substantial financial deficits at first.

v. to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training

48. The marathon runner covered a long _____ in a short amount of time.

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

49. Boxing fans often criticize his _____ stance.

adj. used or intended to protect someone or something against attack or aggression

50. He _____ himself to studying the history of ancient civilizations.

v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose

51. All the supervisor has to do is assign tasks that make his subordinates more _____.

adj. relating to or involving the use of skill and original and unusual ideas to create something

52. The Pythagorean theorem is used to calculate the length of the sides of a right _____.

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

ANSWERS: 46. extend, 47. tame, 48. distance, 49. defensive, 50. devoted, 51. creative, 52. triangle

53. Jockey's superior _____ brought him victory.

n. a particular way or art of doing something that needs skill

54. We bought a Spanish _____ book.

n. a group of words that mean something specific when used together

55. I will work hard to _____ my goals and realize my dreams.

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

56. Overall _____ are approximately 400x200mm.

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

57. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.

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

58. You can use a command line tool to _____ the long file name.

v. to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it

59. The _____ shapes and patterns in the artwork are visually stunning.

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

ANSWERS: 53. technique, 54. phrase, 55. achieve, 56. dimensions, 57. creditor, 58. truncate, 59. geometric