Englist.me

Vocabulary Builder Reference from...

Jeff Dekofsky: Is math discovered or invented? | TED Talk

https://www.ted.com/talks/jeff_dekofsky_is_math_disc overed_or_invented



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 .
ancient	 adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old synonym: archaic, age-old, obsolete
	(1) pre-Christian ancient , (2) ancient stories
	They have been living near water since ancient times.
humankind	<i>n.</i> the whole of the living human inhabitants of the earth <i>synonym</i> : humanity, human race, society
	 (1) humankind as a species, (2) history of humankind On the geological time scale, humankind has existed for a brief moment.
debate	<i>n.</i> a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest,

	in which participants offer opinions and differing perspectives
	synonym: argument, discussion, dispute
	(1) debate topic, (2) debate competition
	The debate over climate change continues to be a hot topic in politics.
discovery	 n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
	synonym: finding, uncovering, detection
	 a scientific discovery, (2) the great discovery of the century
	Her research team made an important discovery .
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 .
concept	<i>n.</i> an idea or principle associated with something abstract <i>synonym</i> : idea, notion, vision
	(1) learn new concepts, (2) concept car
	One such rapidly growing concept is quantum cryptography.
universe	 everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
	synonym: cosmos, macrocosm
	(1) theory of the universe, (2) expansion of the universeThe universe is about 13.8 billion years old.
native	<i>adj.</i> connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place
	synonym: endemic, domestic, aboriginal

	(1) native to Africa, (2) native languageThe vegetation here is almost wholly native.
polygon	 <i>n</i>. a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices) <i>synonym</i>: shape, figure, form
	(1) regular polygon , (2) closed polygon
	The garden had a complex polygon shape with many angles and corners.
equation	<i>n.</i> the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
	 the equation of poverty with ignorance, (2) a chemical equation
	In this class, you will learn how to solve quadratic equations.
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.
ethereal	 <i>adj.</i> delicate, light, and airy; extremely refined or subtle; heavenly or spiritual <i>synonym</i>: airy, delicate, celestial
	(1) ethereal beauty, (2) ethereal light
	The ethereal music created a dreamlike atmosphere in the concert hall.
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.

theoretical	<i>adj.</i> relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience<i>synonym</i>: conceptual, conjectural, ideal
	(1) theoretical models, (2) theoretical physicist
	Absolute zero is the lowest theoretical temperature.
independence	<i>n.</i> freedom from another's or others' control or influence <i>synonym</i> : freedom, liberty, autonomy
	(1) financial independence, (2) independence ceremony
	There is nothing more valuable than independence and freedom.
advocate	 <i>n</i>. a person who supports or suggests an idea, development, or way of doing something <i>synonym</i>: proponent, exponent, promoter
	(1) an advocate of disarmament, (2) public education advocates
	Advocates of abolishing the death penalty often argue that the alternative heaviest sentence should be life in prison.
entity	<i>n.</i> something that exists independently and has its own identity
	synonym: body, object, existent
	(1) legal entity, (2) government entity
	A company is a distinct legal entity .
universal	<i>adj.</i> existing or affecting everywhere or everyone <i>synonym</i> : common, broad, worldwide
	(1) universal life, (2) principles of universal design
	The picture earned near- universal acclaim from critics.
principle	 <i>n</i>. a fundamental law or truth that explains or controls how something happens or works <i>synonym</i>: rule, creed, code

	(1) principle of treatment, (2) principle in business
	Efficiency isn't an essential principle here; fairness is.
monad	 n. a philosophical concept originating from ancient Greek philosophy, representing an ultimate indivisible unit or element, which can signify a fundamental building block of reality, an elementary particle, or a basic entity that possesses inherent qualities synonym: unit, entity, atom
	(1) chemical monad, (2) monad instances
	In biology, a monad cell is a single-celled organism.
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 .
platonic	adj. (of relationship or emotion) friendly or affectionate but not sexual
	synonym: nonphysical, nonsexual, spiritual
	(1) platonic relationship, (2) platonic love
	His relationship with her was completely platonic.
argue	 v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others synonym: debate, dispute, quarrel
	(1) argue a case, (2) argue passionately
	The couple began to argue over which restaurant to go to for dinner.
concrete	 adj. existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement synonym: actual, factual, hardened
	(1) a concrete noun, (2) concrete examples

	The president asked for a more concrete plan.
regardless	<i>adv.</i> not paying attention or considering something or someone even if the situation is bad or there are difficulties
	synonym: anyhow, nevertheless, still
	(1) regardless of the difficulties, (2) regardless tread
	People can pick out superior products regardless of the
	quality of the advertising.
Euclidean	 adj. relating to or based on the geometry set forth by the ancient Greek mathematician Euclid, characterized by straight lines, flat planes, and the absence of curvature synonym: geometric
	(1) Euclidean geometry, (2) Euclidean space
	Euclidean distance measures the straight-line distance
	between two points in space.
geometry	<i>n.</i> the area of pure mathematics that deals with the points, lines, curves, and surfaces
	(1) Euclidean geometry, (2) spherical geometry
	The mathematician pioneered fractal geometry.
manifestation	 n. a visible or tangible form of something, especially a particular sign of a disease or condition synonym: expression, embodiment, presentation
	(1) manifestation of a deeper problem, (2) manifestation
	of psychological stress
	The manifestation of his anxiety was evident in his shaking
	hands.
physically	<i>adv.</i> 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.

definitely	<i>adv.</i> without any question and beyond doubt; clearly <i>synonym</i> : absolutely, certainly, indeed
	(1) definitely become a problem, (2) say definitely
	The paper is definitely worth reading thoroughly.
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.
conscious	 adj. being aware of and able to respond to what is happening around you synonym: aware, cognizant, deliberate
	(1) conscious effort, (2) conscious of having succeeded
	He became conscious that he was being followed.
abstract	 adj. based on general ideas, feelings, or qualities and not on any a physical or concrete existence synonym: conceptual, theoretical, ideational
	(1) an abstract noun, (2) abstract science
	The invention of the camera triggered the development of
	abstract painting.
relation	<i>n.</i> the way two persons or groups of people feel and act toward one another
	synonym: association, linkage, connection
	(1) relation between cause and effect, (2) relation of inclusion
	The industrial relations laws were passed with little to no alteration.
discern	 v. to see, perceive, or understand something that is not obvious
	synonym: determine, distinguish, sense
	(1) discern the big picture, (2) discern friend from foe

Parents need to help their children **discern** right and wrong. the organ inside the head that is responsible for one's brain n. movement, thought, memory, and feeling synonym: intellect, mind, encephalon (1) basic brain function, (2) permanent brain damage X-rays revealed a small tumor in his **brain**. a state of complete confusion or disorder, often chaos n. characterized by a lack of predictability or control synonym: disorder, turmoil, confusion (1) chaos theory, (2) midst of chaos The conference room was in **chaos** as everyone tried to speak at once. a person who supports an idea or pleads for a cause proponent n. synonym: advocate, devotee, follower (1) enthusiastic **proponent**, (2) **proponent** of world peace Einstein was a **proponent** of the theory of relativity. lifetime the duration of someone's life or something's existence; n. synonym: lifespan, duration (1) lifetime benefits, (2) lifetime ban from the sport She had lived through two world wars in her lifetime. to build or create something; to assemble or combine construct v. different parts to form something whole synonym: build, assemble, create (1) **construct** a 3D image, (2) **construct** a dam He **constructs** hypotheses that no mathematician has ever imagined before. an act or effort of trying to do something, especially attempt n. something difficult synonym: endeavor, effort, try (1) the **attempt** to rescue the hostages, (2) a reckless

attempt

The third **attempt** was far more successful.

axiom	 <i>n</i>. a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based <i>synonym</i>: principle, maxim, postulate
	(1) self-evident axiom , (2) fundamental axiom
	It is an axiom in mathematics that two parallel lines never intersect.
philosophy	 n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind synonym: doctrine, attitude, creed
	(1) philosophy of education, (2) western philosophy
	Ethics is a branch of philosophy .
nonetheless	<i>adv.</i> in spite of what has just been said or done; nevertheless <i>synonym</i> : nevertheless, regardless, still
	(1) we are nonetheless confident, (2) love him nonetheless
	They each choose nonetheless to battle.
hyperbole	 n. exaggerated statements or claims not meant to be taken used to create emphasis or to make a point synonym: exaggeration, overstatement, embellishment
	(1) escalate the hyperbole , (2) avoid hyperbole in writing
	The marketing campaign relied heavily on hyperbole to sell the product.
elliptical	 adj. having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself synonym: oval, egg-shaped, oblong
	(1) an elliptical motion, (2) an elliptical galaxies

The satellite's **elliptical** orbit made it appear to change its distance from earth.

(1) the degree of curvature, (2) spinal curvature The curvature of the earth can be seen from space.outcomen. the result or effect of an action, event, etc. synonym: result, consequence, effect (1) improved student outcomes, (2) a desirable outcome They awaited news of the outcome of the election.physicsn. the science of matter and energy and their interactions (1) nuclear physics, (2) laws of physics He studied the physics of radiation.laureaten. a person who has been awarded an honor or a prize for achievement in a particular field, especially in literature or academia; a poet who is honored for achieving the highest level of excellence in a competition or for producing a lifetime body of work (1) Oscar laureate, (2) poet laureate The Nobel laureate delivered an inspiring speech to the graduating class.phrasen. 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.unreasonableadj. not fair, sensible, or likely to be true synonym: unjustified, unfair, excessive	curvature	 n. the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve synonym: bend, arch, bow
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unreasonable <i>adj.</i> not fair, sensible, or likely to be true		
-		vve bought a Spanish phrase book.
	unreasonable	-
(1) unreasonable demand, (2) an unreasonable amount of		(1) unreasonable demand, (2) an unreasonable amount of

	money
	It would be unreasonable for me to expect you to work
	overtime without any extra compensation.
develop	 v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created synonym: evolve, progress, advance
	(1) develop a strategy, (2) develop a skill
	We must develop a new system to streamline our workflow and increase efficiency.
vacuum	 n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction synonym: void, emptiness, gap
	(1) vacuum cleaner, (2) vacuum packing
	Please use the vacuum to clean up the mess on the floor.
phenomenon	 n. something that exists and can be perceptible, especially one that is not fully understood synonym: marvel, wonder, splendor
	(1) natural phenomenon , (2) historical phenomenon
	A rainbow is a natural phenomenon .
framework	 n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text synonym: structure, scheme, foundation
	(1) legal framework , (2) the framework of a house
	He devised a new analytical framework to capture the phenomenon.
instance	<i>n.</i> a particular example or single occurrence of something <i>synonym</i> : example, sample, illustration

(1) for instance, (2) notable instance

These articles cite five **instances** of climate change. *adj.* able to withstand harsh conditions or difficult hardy 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. to talk about someone's accomplishments, wealth, or boast v. abilities excessively with undue pride and self-satisfaction synonym: show off, brag, bluster (1) **boast** of his success, (2) **boast** a long history This town **boasts** a national park. the study of the techniques and methods used for cryptography n. secure communication and information processing, particularly using codes and ciphers synonym: coding, steganography, encryption (1) asymmetric cryptography, (2) digital cryptography The software engineers developed a new cryptography algorithm to protect users' data. the branch of biology that studies genes, genetic genetics n. variation, and heredity in organisms (1) the science of genetics, (2) genetics discrimination He is a specialist in the **genetics** of aging. stumble to miss a step and fall or nearly fall; to walk unsteadily v. synonym: bumble, struggle, misstep (1) **stumble** financially, (2) **stumble** through life She stumbled over the tree root. a series of related events, actions, numbers, etc., which n. sequence have a particular order synonym: arrangement, succession, series

	 (1) the sequence of the seasons, (2) the DNA sequence We do move forward with those tasks in sequence next week.
sunflower	 n. a plant with large, round flower heads that have bright yellow petals and a dark center, grown for its edible seeds and oil, as well as for decorative purposes synonym: helianthus
	(1) sunflower oil, (2) sunflower field
	The sunflower seeds can be roasted and eaten as a snack.
petal	 n. one of the separate, usually colored, segments of a flower that produce its shape and are often found arranged in a circle around the reproductive parts synonym: blossom, flower, bloom
	(1) petal shape, (2) rose petal
	The botany field is concerned with studying the structure of plant petals .
arrangement	 n. a plan or preparation for the future event; the action or process of placing things in a particular order synonym: placement, configuration, account
	(1) arrangement of the furniture, (2) arrangement committee
	As a first arrangement, we agreed to meet the following Friday.
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.

pineapple	 n. tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack synonym: ananas, tropical fruit, bromeliad
	(1) ripe pineapple , (2) canned pineapple
	I love to eat fresh pineapple in my fruit salad.
branch	 n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization synonym: limb, twig, bough
	(1) branch office, (2) a branch pipe
	The branch of the tree had fallen and blocked the road.
bronchus	 n. (in the plural, "bronchi") either of the two main branches of the trachea that lead to the lungs and distribute air to the bronchioles and alveoli synonym: bronchi, airway, tube
	(1) left bronchus , (2) bronchus wall
	Smoking damages the bronchus and increases the risk of lung cancer.
lung	<i>n.</i> either of the two organs in the chest that people and some animals use for breathing
	(1) lung capacity, (2) do lung transplantation
	He has terminal lung cancer.
relative	 adj. considered and evaluated through comparison with something else synonym: comparative, proximate, congeneric
	(1) a remote relative , (2) relative factors Most countries prohibit sexual activity between certain close
	relatives.
knot	<i>n.</i> a tight interlacing of something such as rope or thread <i>synonym</i> : tangle, entanglement, snarl
	(1) a hard knot , (2) a knot of people
	The boy scout showed us how to tie a knot that wouldn't

come undone.

unravel	<i>v.</i> undo twisted, knitted, or woven threads by separating it <i>synonym</i> : separate, unknot, ravel				
	(1) unravel a knit, (2) unravel a plot				
	Detectives are still attempting to unravel the mystery of his death.				
process	 n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products synonym: procedure, method, system 				
	(1) process improvement, (2) decision-making process				
	The process for applying for a visa can be lengthy and complicated.				
string	 n. long, thin material used for tying things together, composed of several twisted threads synonym: line, wire, rope 				
	 retie the string and make it strong, (2) tense piano strings 				
	She wore a string of pearls around her neck.				
influential	<i>adj.</i> having significant impact or power on someone or something				
	synonym: potent, significant, meaningful				
	(1) an influential newspaper, (2) an influential politician				
	Early childhood experiences are very influential for people.				
chime	 v. to make a ringing sound, usually by striking an object like a bell or wind chime; to harmonize or agree with something else; (noun) a set of musical bells or metal tubes that produce a musical sound when struck or played 				
	synonym: ring, toll, peal				

	(1) glass wind chime , (2) chime with the music
	The grandfather clock chimed solemnly, signaling the hour.
artificial	 adj. not natural and made by human beings; not real but produced to resemble something synonym: synthetic, man-made, manufactured
	(1) artificial flowers, (2) artificial environment
	The artificial intelligence system has revolutionized the way we live and work.
humming	<i>adj.</i> producing a continuous, low, vibrating sound like that of the bee
	synonym: buzzing, droning, vibrating
	(1) humming sound, (2) humming bird
	The humming of the bees filled the air as she walked through the garden.
divine	<i>adj.</i> of, from, or like a god; holy or sacred <i>synonym</i> : godly, holy, sacred
	(1) divine intervention, (2) divine grace
	The view from the mountaintop was truly divine.
spiritual	 adj. relating to or affecting the human spirit or soul as opposed to material or physical things synonym: otherworldly, ethereal, transcendental
	(1) constant spiritual striving, (2) spiritual leader
	The meditation class was focused on finding inner peace and cultivating a more spiritual connection with the universe.
specific	 adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise synonym: particular, definite, distinct
	(1) specific instructions, (2) industry- specific regulations
	The scientist conducted a study that provided specific details
	about the species' behavior.

distort	 v. to change something's shape, appearance, or sound so that it appears weird or unclear synonym: fudge, deform, contort 			
	(1) distort the facts, (2) distort the economy			
	Economists contend that taxes distort consumer behavior in general.			
zen	 n. a school of Mahayana Buddhism that originated in China and was later developed in Japan, emphasizing the practice of meditation as the way to achieve enlightenment or awakening; (adjective) characterized by a sense of peace and tranquility, often through the practice of meditation or the use of natural elements synonym: meditative, peaceful, tranquil 			
	(1) zen garden, (2) zen meditation			
	Daily yoga helped her achieve a zen state of mind and calmness.			

Session 2: Spelling

1.	we are nonss confident	adv.	in spite of what has just been said or done; nevertheless
2.	Euan space	adj.	relating to or based on the geometry set forth by the ancient Greek mathematician Euclid, characterized by straight lines, flat planes, and the absence of curvature
3.	a desirable oue	n.	the result or effect of an action, event, etc.
4.	a demonstration in loc	n.	a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
5.	coct a 3D image	v.	to build or create something; to assemble or combine different parts to form something whole
6.	prnt of world peace	n.	a person who supports an idea or pleads for a cause
7.	che with the music	v.	to make a ringing sound, usually by striking an object like a bell or wind chime; to harmonize or agree with something else; (noun) a set of musical bells or metal tubes that produce a musical sound when struck or played
8.	legal frrk	n.	the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text

ANSWERS: 1. nonetheless, 2. Euclidean, 3. outcome, 4. logic, 5. construct, 6. proponent, 7. chime, 8. framework

9.	cous of having succeeded	adj.	being aware of and able to respond to what is happening around you
10.	midst of chs	n.	a state of complete confusion or disorder, often characterized by a lack of predictability or control
11.	western phihy	n.	the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
12.	unal life	adj.	existing or affecting everywhere or everyone
13.	escalate the hyle	n.	exaggerated statements or claims not meant to be taken used to create emphasis or to make a point
14.	indnce ceremony	n.	freedom from another's or others' control or influence
15.	prle of treatment	n.	a fundamental law or truth that explains or controls how something happens or works
16.	lime ban from the sport	n.	the duration of someone's life or something's existence;
17.	closed pon	n.	a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)
18.	laws of phs	n.	the science of matter and energy and their interactions
19.	avoid hyle in writing	n.	exaggerated statements or claims not meant to be taken used to create emphasis or to make a point

ANSWERS: 9. conscious, 10. chaos, 11. philosophy, 12. universal, 13. hyperbole, 14. independence, 15. principle, 16. lifetime, 17. polygon, 18. physics, 19. hyperbole

20.	dep a skill	v.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
21.	ripe pile	n.	tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
22.	learn new cots	n.	an idea or principle associated with something abstract
23.	fundamental axm	n.	a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based
24.	natural pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
25.	stre 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
26.	dep a strategy	v.	to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
27.	a good grounding in matcs	n.	the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 20. develop, 21. pineapple, 22. concept, 23. axiom, 24. phenomenon, 25. structure, 26. develop, 27. mathematics

28. an adte of disarmament	n.	a person who supports or suggests an idea, development, or way of doing something
29. hay breed	adj.	able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
30. tense piano stgs	n.	long, thin material used for tying things together, composed of several twisted threads
31. industry-spic regulations	adj.	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
32. are a case	v.	to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
33. love him nonss	adv.	in spite of what has just been said or done; nevertheless
34. reon of inclusion	n.	the way two persons or groups of people feel and act toward one another
35. binary repion	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
36. chs theory	n.	a state of complete confusion or disorder, often characterized by a lack of predictability or control
37. asymmetric cryphy	n.	the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers

ANSWERS: 28. advocate, 29. hardy, 30. string, 31. specific, 32. argue, 33. nonetheless, 34. relation, 35. representation, 36. chaos, 37. cryptography

38. prle in business	n.	a fundamental law or truth that explains or controls how something happens or works
39. theal physicist	adj.	relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
40. hay plants	adj.	able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
41. an indisputable loc	n.	a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
42. a kt of people	n.	a tight interlacing of something such as rope or thread
43. Euan geometry	adj.	relating to or based on the geometry set forth by the ancient Greek mathematician Euclid, characterized by straight lines, flat planes, and the absence of curvature
44. Euclidean gery	n.	the area of pure mathematics that deals with the points, lines, curves, and surfaces
45. manion of psychological stress	n.	a visible or tangible form of something, especially a particular sign of a disease or condition
46. the inon of new techniques	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing

ANSWERS: 38. principle, 39. theoretical, 40. hardy, 41. logic, 42. knot, 43. Euclidean, 44. geometry, 45. manifestation, 46. invention

47.	left brus	n.	(in the plural, "bronchi") either of the two main branches of the trachea that lead to the lungs and distribute air to the bronchioles and alveoli
48.	reve factors	adj.	considered and evaluated through comparison with something else
49.	artal flowers	adj.	not natural and made by human beings; not real but produced to resemble something
50.	the degree of cure	n.	the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
51.	matcs competition	n.	the science dealing with the logic of quantities, shapes, spaces, and arrangement
52.	ready-made phes	n.	a group of words that mean something specific when used together
53.	regular pon	n.	a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)
54.	abct science	adj.	based on general ideas, feelings, or qualities and not on any a physical or concrete existence
55.	noun phe	n.	a group of words that mean something specific when used together
56.	a brh pipe	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

ANSWERS: 47. bronchus, 48. relative, 49. artificial, 50. curvature, 51. mathematics, 52. phrase, 53. polygon, 54. abstract, 55. phrase, 56. branch

57. improved student oues	n.	the result or effect of an action, event, etc.
58. defly become a problem	adv.	without any question and beyond doubt; clearly
59. a scientific diry	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
60. pre-Christian ant	adj.	relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
61. a nb mind	adj.	unable to feel physical sensation and movement; not showing human feeling or sensitivity
62. dit the facts	v.	to change something's shape, appearance, or sound so that it appears weird or unclear
63. regss tread	adv.	not paying attention or considering something or someone even if the situation is bad or there are difficulties
64. plic relationship	adj.	(of relationship or emotion) friendly or affectionate but not sexual
65. public education adtes	n.	a person who supports or suggests an idea, development, or way of doing something
66. z_n garden	n.	a school of Mahayana Buddhism that originated in China and was later developed in Japan, emphasizing the practice of meditation as the way to achieve enlightenment or awakening; (adjective) characterized by a sense of peace and tranquility, often through the practice of meditation or the use of natural elements

ANSWERS: 57. outcome, 58. definitely, 59. discovery, 60. ancient, 61. numb, 62. distort, 63. regardless, 64. platonic, 65. advocate, 66. zen

67.	constant spal striving	adj.	relating to or affecting the human spirit or soul as opposed to material or physical things
68.	a cote noun	adj.	existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
69.	common inon	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
70.	cous effort	adj.	being aware of and able to respond to what is happening around you
71.	permanent brn damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
72.	the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
73.	spinal cure	n.	the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
74.	basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
75.	etal light	adj.	delicate, light, and airy; extremely refined or subtle; heavenly or spiritual
76.	government eny	n.	something that exists independently and has its own identity

ANSWERS: 67. spiritual, 68. concrete, 69. invention, 70. conscious, 71. brain, 72. discovery, 73. curvature, 74. brain, 75. ethereal, 76. entity

77.	cote examples	adj.	existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
78.	glass wind che	v.	to make a ringing sound, usually by striking an object like a bell or wind chime; to harmonize or agree with something else; (noun) a set of musical bells or metal tubes that produce a musical sound when struck or played
79.	expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
80.	prs improvement	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
81.	brh office	n.	a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
82.	say defly	adv.	without any question and beyond doubt; clearly
83.	nae to Africa	adj.	connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place

ANSWERS: 77. concrete, 78. chime, 79. universe, 80. process, 81. branch, 82. definitely, 83. native

84.	vam packing	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
85.	history of hund	n.	the whole of the living human inhabitants of the earth
86.	stay phyly fit	adv.	in a way related to a person's body or appearance rather than their mind
87.	phyly and mentally	adv.	in a way related to a person's body or appearance rather than their mind
88.	poet late	n.	a person who has been awarded an honor or a prize for achievement in a particular field, especially in literature or academia; a poet who is honored for achieving the highest level of excellence in a competition or for producing a lifetime body of work
89.	ant stories	adj.	relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
90.	regss of the difficulties	adv.	not paying attention or considering something or someone even if the situation is bad or there are difficulties
91.	hund as a species	n.	the whole of the living human inhabitants of the earth
92.	historical pheon	n.	something that exists and can be perceptible, especially one that is not fully understood
93.	chemical mod	n.	a philosophical concept originating from ancient Greek philosophy, representing an ultimate indivisible unit or element, which can signify a fundamental building block of reality, an elementary particle, or a basic entity that possesses inherent qualities

ANSWERS: 84. vacuum, 85. humankind, 86. physically, 87. physically, 88. laureate, 89. ancient, 90. regardless, 91. humankind, 92. phenomenon, 93. monad

94. unl a plot	v.	undo twisted, knitted, or woven threads by separating it
95. for ince	n.	a particular example or single occurrence of something
96. bot a long history	v.	to talk about someone's accomplishments, wealth, or abilities excessively with undue pride and self-satisfaction
97. principles of unal design	adj.	existing or affecting everywhere or everyone
98. dit the economy	v.	to change something's shape, appearance, or sound so that it appears weird or unclear
99. Ig capacity	n.	either of the two organs in the chest that people and some animals use for breathing
100. cot car	n.	an idea or principle associated with something abstract
101. financial indnce	n.	freedom from another's or others' control or influence
102. retie the stg and make it strong	n.	long, thin material used for tying things together, composed of several twisted threads
103. enthusiastic prnt	n.	a person who supports an idea or pleads for a cause
104. legal eny	n.	something that exists independently and has its own identity
105. theal models	adj.	relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

ANSWERS: 94. unravel, 95. instance, 96. boast, 97. universal, 98. distort, 99. lung, 100. concept, 101. independence, 102. string, 103. proponent, 104. entity, 105. theoretical

106. nb with cold	adj.	unable to feel physical sensation and movement; not showing human feeling or sensitivity
107. manion of a deeper problem	n.	a visible or tangible form of something, especially a particular sign of a disease or condition
108. reon between cause and effect	n.	the way two persons or groups of people feel and act toward one another
109. etal beauty	adj.	delicate, light, and airy; extremely refined or subtle; heavenly or spiritual
110. arrnt of the furniture	n.	a plan or preparation for the future event; the action or process of placing things in a particular order
111. pel shape	n.	one of the separate, usually colored, segments of a flower that produce its shape and are often found arranged in a circle around the reproductive parts
112. arrnt committee	n.	a plan or preparation for the future event; the action or process of placing things in a particular order
113. do Ig transplantation	n.	either of the two organs in the chest that people and some animals use for breathing
114. ste financially	v.	to miss a step and fall or nearly fall; to walk unsteadily
115. the science of gecs	n.	the branch of biology that studies genes, genetic variation, and heredity in organisms
116. a reckless att	n.	an act or effort of trying to do something, especially something difficult

ANSWERS: 106. numb, 107. manifestation, 108. relation, 109. ethereal, 110. arrangement, 111. petal, 112. arrangement, 113. lung, 114. stumble, 115. genetics, 116. attempt

117. mod instances	n.	a philosophical concept originating from ancient Greek philosophy, representing an ultimate indivisible unit or element, which can signify a fundamental building block of reality, an elementary particle, or a basic entity that possesses inherent qualities
118. the att to rescue the hostages	n.	an act or effort of trying to do something, especially something difficult
119. the stre of a machine	n.	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
120. gecs discrimination	n.	the branch of biology that studies genes, genetic variation, and heredity in organisms
121. coct a dam	v.	to build or create something; to assemble or combine different parts to form something whole
122. suer oil	n.	a plant with large, round flower heads that have bright yellow petals and a dark center, grown for its edible seeds and oil, as well as for decorative purposes
123. vam cleaner	n.	a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
124. Oscar late	n.	a person who has been awarded an honor or a prize for achievement in a particular field, especially in literature or academia; a poet who is honored for achieving the highest level of excellence in a competition or for producing a lifetime body of work

ANSWERS: 117. monad, 118. attempt, 119. structure, 120. genetics, 121. construct, 122. sunflower, 123. vacuum, 124. laureate

125. the DNA sece	n.	a series of related events, actions, numbers, etc., which have a particular order
126. me incident	adj.	used to emphasize how insignificant or minor someone or something is
127. spal leader	adj.	relating to or affecting the human spirit or soul as opposed to material or physical things
128. an infal newspaper	adj.	having significant impact or power on someone or something
129. brus wall	n.	(in the plural, "bronchi") either of the two main branches of the trachea that lead to the lungs and distribute air to the bronchioles and alveoli
130. dee topic	n.	a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
131. lime benefits	n.	the duration of someone's life or something's existence;
132. spic instructions	adj.	clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
133. a hard kt	n.	a tight interlacing of something such as rope or thread
134. me acquaintance	adj.	used to emphasize how insignificant or minor someone or something is

ANSWERS: 125. sequence, 126. mere, 127. spiritual, 128. influential, 129. bronchus, 130. debate, 131. lifetime, 132. specific, 133. knot, 134. mere

135. din friend from foe	v.	to see, perceive, or understand something that is not obvious
136. phihy of education	n.	the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
137. din the big picture	v.	to see, perceive, or understand something that is not obvious
138. unl a knit	v.	undo twisted, knitted, or woven threads by separating it
139. an abct noun	adj.	based on general ideas, feelings, or qualities and not on any a physical or concrete existence
140. notable ince	n.	a particular example or single occurrence of something
141. an unrble amount of money	adj.	not fair, sensible, or likely to be true
142. suer field	n.	a plant with large, round flower heads that have bright yellow petals and a dark center, grown for its edible seeds and oil, as well as for decorative purposes
143. die intervention	adj.	of, from, or like a god; holy or sacred
144. nuclear phs	n.	the science of matter and energy and their interactions
145. canned pile	n.	tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
146. self-evident axm	n.	a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based

ANSWERS: 135. discern, 136. philosophy, 137. discern, 138. unravel, 139. abstract, 140. instance, 141. unreasonable, 142. sunflower, 143. divine, 144. physics, 145. pineapple, 146. axiom

147. the eqon of poverty with ignorance	n.	the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
148. hug bird	adj.	producing a continuous, low, vibrating sound like that of the bee
149. sales repion	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
150. are passionately	v.	to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
151. decision-making prs	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
152. spherical gery	n.	the area of pure mathematics that deals with the points, lines, curves, and surfaces
153. an ellal motion	adj.	having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself

ANSWERS: 147. equation, 148. humming, 149. representation, 150. argue, 151. process, 152. geometry, 153. elliptical

154 days a compatition		a formal discussion or argument of
154. dee competition	n.	a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
155. an infal politician	adj.	having significant impact or power on someone or something
156. z_n meditation	n.	a school of Mahayana Buddhism that originated in China and was later developed in Japan, emphasizing the practice of meditation as the way to achieve enlightenment or awakening; (adjective) characterized by a sense of peace and tranquility, often through the practice of meditation or the use of natural elements
157. a remote reve	adj.	considered and evaluated through comparison with something else
158. rose pel	n.	one of the separate, usually colored, segments of a flower that produce its shape and are often found arranged in a circle around the reproductive parts
159. an ellal galaxies	adj.	having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
160. ste through life	v.	to miss a step and fall or nearly fall; to walk unsteadily

ANSWERS: 154. debate, 155. influential, 156. zen, 157. relative, 158. petal, 159. elliptical, 160. stumble

161. die grace	adj.	of, from, or like a god; holy or sacred
162. nae language	adj.	connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place
163. the sece of the seasons	n.	a series of related events, actions, numbers, etc., which have a particular order
164. plic love	adj.	(of relationship or emotion) friendly or affectionate but not sexual
165. digital cryphy	n.	the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers
166. theory of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
167. artal environment	adj.	not natural and made by human beings; not real but produced to resemble something
168. the frrk of a house	n.	the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
169. unrble demand	adj.	not fair, sensible, or likely to be true
170. bot of his success	v.	to talk about someone's accomplishments, wealth, or abilities excessively with undue pride and self-satisfaction

ANSWERS: 161. divine, 162. native, 163. sequence, 164. platonic, 165. cryptography, 166. universe, 167. artificial, 168. framework, 169. unreasonable, 170. boast

171. a chemical eqon	n.	the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
172. hug sound	adj.	producing a continuous, low, vibrating sound like that of the bee

ANSWERS: 171. equation, 172. humming

Session 3: Fill in the Blanks

- 1. X-rays revealed a small tumor in his _____.
- *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
- 2. The software engineers developed a new ______ algorithm to protect users' data.
- *n.* the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers
- 3. People can pick out superior products ______ of the quality of the advertising.
- *adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
- 4. The president asked for a more _____ plan.
- *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
- 5. The _____ over climate change continues to be a hot topic in politics.
- *n*. a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
- 6. In biology, a _____ cell is a single-celled organism.
- *n*. a philosophical concept originating from ancient Greek philosophy, representing an ultimate indivisible unit or element, which can signify a fundamental building block of reality, an elementary particle, or a basic entity that possesses inherent qualities

ANSWERS: 1. brain, 2. cryptography, 3. regardless, 4. concrete, 5. debate, 6. monad

- 7. Parents need to help their children _____ right and wrong.
- v. to see, perceive, or understand something that is not obvious
- 8. The _____ music created a dreamlike atmosphere in the concert hall.
- adj. delicate, light, and airy; extremely refined or subtle; heavenly or spiritual
- 9. He studied the _____ of radiation.
- *n.* the science of matter and energy and their interactions
- 10. The invention of the camera triggered the development of _____ painting.
- *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
- 11. He lost the election by _____ votes.
- adj. used to emphasize how insignificant or minor someone or something is
- 12. The picture earned near-_____ acclaim from critics.
- *adj.* existing or affecting everywhere or everyone
- 13. He devised a new analytical ______ to capture the phenomenon.
- *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
- 14. She _____ over the tree root.
- v. to miss a step and fall or nearly fall; to walk unsteadily
- 15. The vegetation here is almost wholly _____.
- *adj.* connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place

ANSWERS: 7. discern, 8. ethereal, 9. physics, 10. abstract, 11. mere, 12. universal, 13. framework, 14. stumbled, 15. native

- 16. The grandfather clock ______ solemnly, signaling the hour.
- v. to make a ringing sound, usually by striking an object like a bell or wind chime; to harmonize or agree with something else; (noun) a set of musical bells or metal tubes that produce a musical sound when struck or played
- 17. He ______ hypotheses that no mathematician has ever imagined before.
- v. to build or create something; to assemble or combine different parts to form something whole
- 18. There is nothing more valuable than _____ and freedom.
- *n.* freedom from another's or others' control or influence
- 19. The ______ seeds can be roasted and eaten as a snack.
- *n.* a plant with large, round flower heads that have bright yellow petals and a dark center, grown for its edible seeds and oil, as well as for decorative purposes
- 20. On the geological time scale, _____ has existed for a brief moment.
- *n.* the whole of the living human inhabitants of the earth
- 21. The ______ of his anxiety was evident in his shaking hands.
- *n*. a visible or tangible form of something, especially a particular sign of a disease or condition
- 22. ______ of abolishing the death penalty often argue that the alternative heaviest sentence should be life in prison.
- *n*. a person who supports or suggests an idea, development, or way of doing something
- 23. As a first ______ we agreed to meet the following Friday.
 - *n.* a plan or preparation for the future event; the action or process of placing things in a particular order

ANSWERS: 16. chimed, 17. constructs, 18. independence, 19. sunflower, 20. humankind, 21. manifestation, 22. Advocates, 23. arrangement,

- 24. It is an _____ in mathematics that two parallel lines never intersect.
 - *n.* a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based
- 25. She wore a _____ of pearls around her neck.
- *n.* long, thin material used for tying things together, composed of several twisted threads
- 26. The satellite's ______ orbit made it appear to change its distance from earth.
- *adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
- 27. Please use the _____ to clean up the mess on the floor.
 - *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
- 28. The scientist conducted a study that provided ______ details about the species' behavior.
- *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
- 29. He became ______ that he was being followed.
- *adj.* being aware of and able to respond to what is happening around you
- 30. _____ distance measures the straight-line distance between two points in space.
- *adj.* relating to or based on the geometry set forth by the ancient Greek mathematician Euclid, characterized by straight lines, flat planes, and the absence of curvature

ANSWERS: 24. axiom, 25. string, 26. elliptical, 27. vacuum, 28. specific, 29. conscious, 30. Euclidean

- 31. The conference room was in _____ as everyone tried to speak at once.
 - *n.* a state of complete confusion or disorder, often characterized by a lack of predictability or control
- 32. We bought a Spanish _____ book.
- *n.* a group of words that mean something specific when used together
- 33. Early childhood experiences are very ______ for people.
- adj. having significant impact or power on someone or something
- 34. He is a specialist in the _____ of aging.
- *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
- 35. The ______ intelligence system has revolutionized the way we live and work.
- *adj.* not natural and made by human beings; not real but produced to resemble something
- 36. The paper is ______ worth reading thoroughly.
- *adv.* without any question and beyond doubt; clearly
- 37. Smoking damages the _____ and increases the risk of lung cancer.
- *n.* (in the plural, "bronchi") either of the two main branches of the trachea that lead to the lungs and distribute air to the bronchioles and alveoli
- 38. Necessity is the mother of _____.
- *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

ANSWERS: 31. chaos, 32. phrase, 33. influential, 34. genetics, 35. artificial, 36. definitely, 37. bronchus, 38. invention

- 39. He has a flair for _____.
- *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
- 40. The third _____ was far more successful.
- *n.* an act or effort of trying to do something, especially something difficult
- 41. They awaited news of the _____ of the election.
- *n.* the result or effect of an action, event, etc.
- 42. 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
- 43. Daily yoga helped her achieve a _____ state of mind and calmness.
 - *n.* a school of Mahayana Buddhism that originated in China and was later developed in Japan, emphasizing the practice of meditation as the way to achieve enlightenment or awakening; (adjective) characterized by a sense of peace and tranquility, often through the practice of meditation or the use of natural elements
- 44. Economists contend that taxes _____ consumer behavior in general.
 - *v.* to change something's shape, appearance, or sound so that it appears weird or unclear
- 45. Einstein was a _____ of the theory of relativity.
- *n.* a person who supports an idea or pleads for a cause
- 46. The ______ is about 13.8 billion years old.
- *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 39. mathematics, 40. attempt, 41. outcome, 42. logic, 43. zen, 44. distort, 45. proponent, 46. universe

- 47. The meditation class was focused on finding inner peace and cultivating a more ______ connection with the universe.
- *adj.* relating to or affecting the human spirit or soul as opposed to material or physical things
- 48. In this class, you will learn how to solve quadratic _____.
- *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
- 49. The boy scout showed us how to tie a _____ that wouldn't come undone.
- *n.* a tight interlacing of something such as rope or thread
- 50. One such rapidly growing ______ is quantum cryptography.
- *n.* an idea or principle associated with something abstract
- 51. Detectives are still attempting to _____ the mystery of his death.
- v. undo twisted, knitted, or woven threads by separating it
- 52. The _____ of the tree had fallen and blocked the road.
- *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
- 53. The view from the mountaintop was truly _____.
- *adj.* of, from, or like a god; holy or sacred
- 54. The marketing campaign relied heavily on ______ to sell the product.
- *n.* exaggerated statements or claims not meant to be taken used to create emphasis or to make a point

ANSWERS: 47. spiritual, 48. equations, 49. knot, 50. concept, 51. unravel, 52. branch, 53. divine, 54. hyperbole

- 55. His relationship with her was completely _____.
 - *adj.* (of relationship or emotion) friendly or affectionate but not sexual
- 56. 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
- 57. The Nobel ______ delivered an inspiring speech to the graduating class.
 - *n*. a person who has been awarded an honor or a prize for achievement in a particular field, especially in literature or academia; a poet who is honored for achieving the highest level of excellence in a competition or for producing a lifetime body of work
- 58. The ______ of the bees filled the air as she walked through the garden.
- *adj.* producing a continuous, low, vibrating sound like that of the bee
- 59. The garden had a complex ______ shape with many angles and corners.
- *n.* a closed plane figure bounded by three or more straight sides that meet at the same number of angles (vertices)
- 60. A rainbow is a natural _____.
- *n.* something that exists and can be perceptible, especially one that is not fully understood
- 61. 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
- 62. They have been living near water since ______ times.
- *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

ANSWERS: 55. platonic, 56. physically, 57. laureate, 58. humming, 59. polygon, 60. phenomenon, 61. structure, 62. ancient

- 63. These articles cite five ______ of climate change.
- *n.* a particular example or single occurrence of something
- 64. The industrial ______ laws were passed with little to no alteration.
- *n.* the way two persons or groups of people feel and act toward one another
- 65. The ______ of the earth can be seen from space.
- *n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
- 66. She had lived through two world wars in her _____.
- *n.* the duration of someone's life or something's existence;
- 67. The mathematician pioneered fractal _____.
 - *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
- 68. 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
- 69. Most countries prohibit sexual activity between certain close _____.
- *adj.* considered and evaluated through comparison with something else
- 70. I love to eat fresh _____ in my fruit salad.
- *n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack

ANSWERS: 63. instances, 64. relations, 65. curvature, 66. lifetime, 67. geometry, 68. representation, 69. relatives, 70. pineapple

- 71. 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
- 72. This town _____ a national park.
- *v.* to talk about someone's accomplishments, wealth, or abilities excessively with undue pride and self-satisfaction
- 73. A company is a distinct legal _____.
- *n.* something that exists independently and has its own identity
- 74. 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
- 75. He has terminal _____ cancer.
- *n*. either of the two organs in the chest that people and some animals use for breathing
- 76. We do move forward with those tasks in _____ next week.
- *n.* a series of related events, actions, numbers, etc., which have a particular order
- 77. Her research team made an important _____.
- *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
- 78. The couple began to _____ over which restaurant to go to for dinner.
- *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

ANSWERS: 71. theoretical, 72. boasts, 73. entity, 74. hardy, 75. lung, 76. sequence, 77. discovery, 78. argue

- 79. It would be ______ for me to expect you to work overtime without any extra compensation.
- adj. not fair, sensible, or likely to be true
- 80. We must ______ a new system to streamline our workflow and increase efficiency.
 - v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
- 81. My left arm became _____.
- *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
- 82. The botany field is concerned with studying the structure of plant _____.
 - *n.* one of the separate, usually colored, segments of a flower that produce its shape and are often found arranged in a circle around the reproductive parts
- 83. They each choose ______ to battle.
 - *adv.* in spite of what has just been said or done; nevertheless
- 84. Ethics is a branch of _____.
 - *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
- 85. Efficiency isn't an essential _____ here; fairness is.
 - *n*. a fundamental law or truth that explains or controls how something happens or works
- 86. The ______ for applying for a visa can be lengthy and complicated.
 - *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 79. unreasonable, 80. develop, 81. numb, 82. petals, 83. nonetheless,

84. philosophy, 85. principle, 86. process

ANSWERS: