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Vocabulary Builder Reference from...

Arthur Benjamin: Teach statistics before calculus! |

TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

president

n. the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.

synonym: leader, CEO, chairperson

(1) **president** emeritus, (2) vice-**president** for finance

The club **president** does not have absolute power.

invite

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

synonym: ask, request, summon

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

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

czar

n. (also tsar or tzar) a title of rulers or monarchs, especially in Russia, before the Russian Revolution of 1917; an authoritarian or powerful political leader or high-level officeholder

synonym: ruler, sovereign, autocrat

(1) technology **czar**, (2) economic **czar**

The **czar** of healthcare is responsible for improving the quality and accessibility of healthcare for all citizens.

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**.

vast

adj. enormous in size, number, amount, or quantity

synonym: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

improve

v. to make or become better

synonym: enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

implement

v. to put a decision, plan, or system into effect

synonym: execute, enforce, put through

(1) **implement** a corporate strategy, (2) **implement** security measures

The government promised to **implement** a new system to control the financial crisis.

inexpensive

adj. costing little; having a low price

synonym: cheap, affordable, economical

(1) **inexpensive** option, (2) an **inexpensive** inn

The restaurant offered delicious food at an **inexpensive** price.

curriculum

n. a series of subjects comprising a course of study in a school, college, etc.

synonym: program, syllabus, course of study

(1) a **curriculum** vitae, (2) an academic **curriculum**

A committee was appointed to manage the reorganization of the **curriculum**.

foundation

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

synonym: base, support, groundwork

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

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

arithmetic

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

synonym: computation, calculation, math

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

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

algebra

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

synonym: calculus

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

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

pyramid

n. a polyhedron having a polygonal base and triangular sides with a common vertex; a massive monument with a square base and four triangular sides, begun by Cheops around 2700 BC as royal tombs in ancient Egypt

synonym: monument, edifice, tomb

(1) **pyramid** architecture, (2) a truncated **pyramid**

The Egyptian **pyramids** consist of a vast number of blocks.

calculus

n. a branch of mathematics that deals with rates of change and limits; the accumulation of hard mineral deposits that can form in organs or ducts in the body, such as kidney stones or gallstones

synonym : mathematics, math, analysis

(1) **calculus** equations, (2) **calculus** disease

I needed help understanding the advanced **calculus** course material.

summit

n. the highest point of a mountain or hill; a meeting of heads of state or government to discuss important issues

synonym : peak, top, crest

(1) reach the **summit**, (2) **summit** talks

The climbers reached the mountain's **summit** after a long and challenging journey.

stud

n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

synonym : beam, scantling, framing

(1) horse **stud**, (2) wall **stud**

He bought a new **stud** to attach the strap to his watch.

graduate

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

synonym : alumna, alum, grad

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

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

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

probabilistic

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

synonym : probable, statistical, likely

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

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

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym : architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

economics

n. the branch of social science that deals with the production, consumption, and transfer of goods and services

synonym : social science, finance, business

(1) welfare **economics**, (2) **economics** professor

His class will cover an introduction to agricultural **economics**.

definitely

adv. without any question and beyond doubt; clearly

synonym : absolutely, certainly, indeed

(1) **definitely** become a problem, (2) say **definitely**

The paper is **definitely** worth reading thoroughly.

freshman

n. a first-year student, typically in college or high school

synonym : freshie, newcomer, rookie

(1) **freshman** orientation, (2) **freshman** year

The **freshman** class was excited to start their first year of college.

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.

meaningful

adj. having meaning, function, or purpose; serious, significant, or worthwhile

synonym : significant, consequential, essential

(1) a **meaningful** outcome, (2) make the accord **meaningful**

She cast a **meaningful** glance at me.

basis

n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

synonym : foundation, base, ground

(1) on an equal **basis**, (2) **basis** for calculation

This evidence will form the **basis** for our discussion.

reward

n. a thing given in acknowledgment of service, hard work, achievement, etc.

synonym : compensation, gratuity, bonus

(1) the **reward** for good works, (2) shopping **rewards** cards

Night fishing has a lot of **rewards**.

random

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

synonym : incidental, arbitrary, unanticipated

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

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

economy

n. the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

synonym : finance, trade, business

(1) **economy** of scale, (2) **economy** class

The **economy** of the country is struggling due to the recent political instability.

mess

n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

synonym : disarray, confusion, predicament

(1) have a whole **mess**, (2) get into a **mess**

He made a frightful **mess** in his room.

prop

n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

synonym : support, buttress, column

(1) emotional **prop**, (2) **prop** stick

We have finally lost our last **prop**.

gamble

v. to take risky action in the hope of being successful; to play or game for money or other stakes

synonym : bet, venture, wager

(1) **gamble** \$100 on the race, (2) **gamble** away my fortune

Will you **gamble** on the result of the fight?

analyze

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

synonym : explore, examine, investigate

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

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

trend

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

synonym : direction, movement, tendency

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

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

predict

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

synonym : forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive
It's notoriously challenging to **predict** birth rates.

analog

adj. relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

(1) an **analog** watch, (2) digitization of **analog** sounds
Mercury thermometers are a type of **analog** sensor.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym: numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature
Sensors convert physical phenomena into **digital** signals.

classic

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

synonym: definitive, traditional, typical

(1) a **classic** experiment, (2) Chinese **classic** literature
He displayed the **classic** symptoms of depression.

continuous

adj. occurring or existing without a pause or interruption

synonym: ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

modern

adj. of or belonging to the present time or recent times

synonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre-**modern** agricultural society
Their headquarters are in a **modern** skyscraper.

discrete

adj. separate and distinct; not continuous; individually distinguishable

synonym : separate, distinct, individual

(1) **discrete** metric space, (2) **discrete** variable

The company divided the tasks into **discrete** segments to increase efficiency.

uncertain

adj. not being sure of something; not being able to choose

synonym : doubtful, skeptical, pending

(1) numerous **uncertain** factors, (2) take an **uncertain** attitude

She was **uncertain** about her friend's intentions.

summary

n. a brief statement that provides the critical aspects of something without going into depth

synonym : outline, digest, overview

(1) a **summary** execution, (2) a **summary** of the conclusions

A **summary** is at the end of the book.

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.

significance

n. the importance or value attached to something; the quality of being significant or noteworthy

synonym : importance, value, worth

(1) **significance** level, (2) mystical **significance**

The **significance** of his discovery cannot be overstated.

deviate

v. to depart from an established course or plan; to change direction or take a different route or approach

synonym : stray, diverge, veer

(1) **deviate** from the norm, (2) **deviate** from the plan

It's important not to **deviate** from the established safety

procedures.

Session 2: Spelling

- | | |
|-----------------------------------|---|
| 1. the tr__d away from television | <i>n.</i> a general direction in which something is changing or developing |
| 2. on an equal ba__s | <i>n.</i> the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged |
| 3. di____te variable | <i>adj.</i> separate and distinct; not continuous; individually distinguishable |
| 4. get into a m__s | <i>n.</i> a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy |
| 5. say def____ly | <i>adv.</i> without any question and beyond doubt; clearly |
| 6. co____us effort | <i>adj.</i> being aware of and able to respond to what is happening around you |
| 7. mo__n poetry | <i>adj.</i> of or belonging to the present time or recent times |
| 8. ca____us equations | <i>n.</i> a branch of mathematics that deals with rates of change and limits; the accumulation of hard mineral deposits that can form in organs or ducts in the body, such as kidney stones or gallstones |
| 9. al____a calculation | <i>n.</i> a type of mathematics in which signs and letters represent numbers |
| 10. con____us improvement | <i>adj.</i> occurring or existing without a pause or interruption |

ANSWERS: 1. trend, 2. basis, 3. discrete, 4. mess, 5. definitely, 6. conscious, 7. modern, 8. calculus, 9. algebra, 10. continuous

11. digitization of an___g sounds *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
12. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
13. a cl____c experiment *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
14. in___e guests *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
15. wall s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
16. a su____y of the conclusions *n.* a brief statement that provides the critical aspects of something without going into depth
17. py____d architecture *n.* a polyhedron having a polygonal base and triangular sides with a common vertex; a massive monument with a square base and four triangular sides, begun by Cheops around 2700 BC as royal tombs in ancient Egypt

ANSWERS: 11. analog, 12. modern, 13. classic, 14. invite, 15. stud, 16. summary, 17. pyramid

18. a truncated py____d *n.* a polyhedron having a polygonal base and triangular sides with a common vertex; a massive monument with a square base and four triangular sides, begun by Cheops around 2700 BC as royal tombs in ancient Egypt
19. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
20. im_____nt a corporate strategy *v.* to put a decision, plan, or system into effect
21. mental ari_____ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
22. Chinese cl_____c literature *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
23. def_____ly become a problem *adv.* without any question and beyond doubt; clearly
24. di_____te metric space *adj.* separate and distinct; not continuous; individually distinguishable
25. have a whole m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
26. strong in al_____a *n.* a type of mathematics in which signs and letters represent numbers

ANSWERS: 18. pyramid, 19. mathematics, 20. implement, 21. arithmetic, 22. classic, 23. definitely, 24. discrete, 25. mess, 26. algebra

27. technology c__r *n.* (also tsar or tzar) a title of rulers or monarchs, especially in Russia, before the Russian Revolution of 1917; an authoritarian or powerful political leader or high-level officeholder
28. pro_____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
29. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
30. v__t desert *adj.* enormous in size, number, amount, or quantity
31. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
32. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
33. a su_____y execution *n.* a brief statement that provides the critical aspects of something without going into depth
34. welfare ec_____cs *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
35. emotional p__p *n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

ANSWERS: 27. czar, 28. probabilistic, 29. engineer, 30. vast, 31. analyze, 32. digital, 33. summary, 34. economics, 35. prop

36. the te_____ue applied to construction
n. a particular way or art of doing something that needs skill
37. de_____e from the plan
v. to depart from an established course or plan; to change direction or take a different route or approach
38. numerous un_____in factors
adj. not being sure of something; not being able to choose
39. a ra____m choice
adj. made, done, or happening without method, conscious decision, or any regular pattern
40. ec_____y class
n. the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
41. p__p stick
n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
42. de_____e from the norm
v. to depart from an established course or plan; to change direction or take a different route or approach
43. en_____er shortage
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 36. technique, 37. deviate, 38. uncertain, 39. random, 40. economy, 41. prop, 42. deviate, 43. engineer

44. v__t majority *adj.* enormous in size, number, amount, or quantity
45. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
46. the re___d for good works *n.* a thing given in acknowledgment of service, hard work, achievement, etc.
47. a mea_____ul outcome *adj.* having meaning, function, or purpose; serious, significant, or worthwhile
48. shopping re___ds cards *n.* a thing given in acknowledgment of service, hard work, achievement, etc.
49. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
50. weak fou_____on *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
51. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
52. co_____us of having succeeded *adj.* being aware of and able to respond to what is happening around you
53. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 44. vast, 45. statistics, 46. reward, 47. meaningful, 48. reward, 49. probabilistic, 50. foundation, 51. analyze, 52. conscious, 53. predict

54. make the accord mea_____ul *adj.* having meaning, function, or purpose; serious, significant, or worthwhile
55. honor gr_____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
56. im_____e a process *v.* to make or become better
57. decimal ari_____ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
58. bombs fell at ra____m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
59. im_____e the test score *v.* to make or become better
60. economic c__r *n.* (also tsar or tzar) a title of rulers or monarchs, especially in Russia, before the Russian Revolution of 1917; an authoritarian or powerful political leader or high-level officeholder
61. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
62. ine_____ve option *adj.* costing little; having a low price
63. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
64. fr_____an orientation *n.* a first-year student, typically in college or high school

ANSWERS: 54. meaningful, 55. graduate, 56. improve, 57. arithmetic, 58. random, 59. improve, 60. czar, 61. technique, 62. inexpensive, 63. statistics, 64. freshman

65. an international tr__d *n.* a general direction in which something is changing or developing
66. su___t talks *n.* the highest point of a mountain or hill; a meeting of heads of state or government to discuss important issues
67. ba__s for calculation *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
68. mystical sig_____nce *n.* the importance or value attached to something; the quality of being significant or noteworthy
69. ca_____us disease *n.* a branch of mathematics that deals with rates of change and limits; the accumulation of hard mineral deposits that can form in organs or ducts in the body, such as kidney stones or gallstones
70. horse s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
71. ga___e \$100 on the race *v.* to take risky action in the hope of being successful; to play or game for money or other stakes
72. a con_____us row of warehouses *adj.* occurring or existing without a pause or interruption

ANSWERS: 65. trend, 66. summit, 67. basis, 68. significance, 69. calculus, 70. stud, 71. gamble, 72. continuous

73. take an un_____in attitude *adj.* not being sure of something; not being able to choose
74. vice-pr_____nt for finance *n.* the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.
75. im_____nt security measures *v.* to put a decision, plan, or system into effect
76. an academic cur_____um *n.* a series of subjects comprising a course of study in a school, college, etc.
77. a cur_____um vitae *n.* a series of subjects comprising a course of study in a school, college, etc.
78. reach the su____t *n.* the highest point of a mountain or hill; a meeting of heads of state or government to discuss important issues
79. an ine_____ve inn *adj.* costing little; having a low price
80. an an____g watch *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
81. in____e criticism *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
82. ec_____cs professor *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
83. di_____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 73. uncertain, 74. president, 75. implement, 76. curriculum, 77. curriculum, 78. summit, 79. inexpensive, 80. analog, 81. invite, 82. economics, 83. digital

84. gr_____te degree program *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
85. fou_____on course *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
86. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
87. fr_____an year *n.* a first-year student, typically in college or high school
88. sig_____nce level *n.* the importance or value attached to something; the quality of being significant or noteworthy
89. ga___e away my fortune *v.* to take risky action in the hope of being successful; to play or game for money or other stakes
90. ec_____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
91. pr_____nt emeritus *n.* the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.

ANSWERS: 84. graduate, 85. foundation, 86. mathematics, 87. freshman, 88. significance, 89. gamble, 90. economy, 91. president

92. pr____t the future

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

ANSWERS: 92. predict

Session 3: Fill in the Blanks

1. To find drunk drivers, police conduct _____ tests.
adj. made, done, or happening without method, conscious decision, or any regular pattern
2. The heavy snow has been _____ since last morning.
adj. occurring or existing without a pause or interruption
3. He bought a new _____ to attach the strap to his watch.
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
4. The government promised to _____ a new system to control the financial crisis.
v. to put a decision, plan, or system into effect
5. The restaurant offered delicious food at an _____ price.
adj. costing little; having a low price
6. We have finally lost our last _____.
n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
7. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 1. random, 2. continuous, 3. stud, 4. implement, 5. inexpensive, 6. prop, 7. predict

8. I needed help understanding the advanced _____ course material.
n. a branch of mathematics that deals with rates of change and limits; the accumulation of hard mineral deposits that can form in organs or ducts in the body, such as kidney stones or gallstones
9. A _____ audience viewed the broadcast.
adj. enormous in size, number, amount, or quantity
10. Night fishing has a lot of _____.
n. a thing given in acknowledgment of service, hard work, achievement, etc.
11. She cast a _____ glance at me.
adj. having meaning, function, or purpose; serious, significant, or worthwhile
12. His class will cover an introduction to agricultural _____.
n. the branch of social science that deals with the production, consumption, and transfer of goods and services
13. He became _____ that he was being followed.
adj. being aware of and able to respond to what is happening around you
14. The teacher attempted to _____ the root cause of our mistake.
v. to think about in-depth and evaluate to discover essential features or meaning
15. The _____ class was excited to start their first year of college.
n. a first-year student, typically in college or high school
16. He made a frightful _____ in his room.
n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

ANSWERS: 8. calculus, 9. vast, 10. rewards, 11. meaningful, 12. economics, 13. conscious, 14. analyze, 15. freshman, 16. mess

17. The club _____ does not have absolute power.
n. the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.
18. The Egyptian _____ consist of a vast number of blocks.
n. a polyhedron having a polygonal base and triangular sides with a common vertex; a massive monument with a square base and four triangular sides, begun by Cheops around 2700 BC as royal tombs in ancient Egypt
19. The paper is _____ worth reading thoroughly.
adv. without any question and beyond doubt; clearly
20. The _____ of healthcare is responsible for improving the quality and accessibility of healthcare for all citizens.
n. (also tsar or tzar) a title of rulers or monarchs, especially in Russia, before the Russian Revolution of 1917; an authoritarian or powerful political leader or high-level officeholder
21. We want to _____ ties between our two countries.
v. to make or become better
22. The _____ of his discovery cannot be overstated.
n. the importance or value attached to something; the quality of being significant or noteworthy
23. Their headquarters are in a _____ skyscraper.
adj. of or belonging to the present time or recent times
24. Mercury thermometers are a type of _____ sensor.
adj. relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

ANSWERS: 17. president, 18. pyramids, 19. definitely, 20. czar, 21. improve, 22. significance, 23. modern, 24. analog

25. In a _____ system, the outcome is uncertain and can vary based on chance.
- adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
26. The climbers reached the mountain's _____ after a long and challenging journey.
- n.* the highest point of a mountain or hill; a meeting of heads of state or government to discuss important issues
27. His classmates were laboring with advanced _____.
- n.* a type of mathematics in which signs and letters represent numbers
28. This evidence will form the _____ for our discussion.
- n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
29. Jockey's superior _____ brought him victory.
- n.* a particular way or art of doing something that needs skill
30. He displayed the _____ symptoms of depression.
- adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
31. It's important not to _____ from the established safety procedures.
- v.* to depart from an established course or plan; to change direction or take a different route or approach
32. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 25. probabilistic, 26. summit, 27. algebra, 28. basis, 29. technique, 30. classic, 31. deviate, 32. engineer

33. Many employers hire _____ trainees to train as managers.
n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
34. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
35. The _____ demonstrate that poverty and unemployment are genuine problems.
n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
36. The _____ of the building was cracked and needed to be repaired.
n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
37. The oil price continued their downward _____.
n. a general direction in which something is changing or developing
38. She was _____ about her friend's intentions.
adj. not being sure of something; not being able to choose
39. Sensors convert physical phenomena into _____ signals.
adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 33. graduate, 34. mathematics, 35. statistics, 36. foundation, 37. trend, 38. uncertain, 39. digital

40. We want to _____ you to our annual charity event.
- v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
41. The _____ of the country is struggling due to the recent political instability.
- n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
42. A _____ is at the end of the book.
- n.* a brief statement that provides the critical aspects of something without going into depth
43. The abacus is an ancient counting device that was used for _____ calculations.
- n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
44. The company divided the tasks into _____ segments to increase efficiency.
- adj.* separate and distinct; not continuous; individually distinguishable
45. A committee was appointed to manage the reorganization of the _____.
- n.* a series of subjects comprising a course of study in a school, college, etc.
46. Will you _____ on the result of the fight?
- v.* to take risky action in the hope of being successful; to play or game for money or other stakes

ANSWERS: 40. invite, 41. economy, 42. summary, 43. arithmetic, 44. discrete, 45. curriculum, 46. gamble

ANSWERS: