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Alex Gendler: Can you solve the Alice in Wonderland riddle? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

adventure

n. a journey or a series of events that is unusual, exciting, or dangerous

synonym: experience, happening, incident

(1) gastronomic **adventures**, (2) **adventure** film

He sailed the Atlantic Ocean multiple times during his **adventures**.

wonderland

n. a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland

synonym: fantasyland, dreamland, fairyland

(1) magical **wonderland**, (2) Alice's **wonderland**

The colorful garden was a **wonderland** of various plants and flowers.

temperamental

adj. relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable

synonym: moody, unpredictable, volatile

(1) **temperamental** artist, (2) **temperamental** player

The project's success largely depends on the **temperamental** weather in the region.

undetected

adj. not perceived or discovered

synonym : undiscovered, hidden, concealed

(1) **undetected** cancer, (2) leave the house **undetected**
Doctors made mistakes, and diseases remained **undetected**.

overhear

v. to hear what other people are saying without intending to and their knowledge

synonym : catch, eavesdrop

(1) happen to **overhear** a conversation, (2) accidentally **overheard** their talk

She was inside at the time and **overheard** the conversation.

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.

interject

v. to say something, especially an opinion or a remark, abruptly while another person is speaking

synonym : throw in, introduce, insert

(1) **interject** his comment, (2) **interject** my feelings

Please do not **interject** personal opinions.

nonsense

n. an idea, behavior, or something spoken or written that has no meaning or makes no sense or that is silly or unacceptable

synonym : ludicrousness, gabble, absurdity

(1) talk **nonsense**, (2) sheer **nonsense**

The parents spoke to their children in no- **nonsense** tones.

dare

v. to have the courage to do something

synonym : challenge, risk, attempt

(1) **dare** not go, (2) **dare** to take risks

I wouldn't **dare** to speak to him like that.

huff *n.* a fit of anger, annoyance, or resentment; a state of irritation or sulking; (verb) to exhale forcefully or audibly in a show of annoyance, anger, or frustration
synonym: miff, tantrum, indignation
(1) **huff** and puff upstairs, (2) give a **huff** of relief
She let out a **huff** of frustration after the difficult workout.

protest *n.* a strong expression of disagreement, disapproval, or opposition
synonym: objection, disapproval, challenge
(1) hold a **protest**, (2) a silent **protest**
He left the party in **protest** at its radical political stance.

drag *v.* to pull or haul with force
synonym: haul, pull, draw
(1) **drag** a chair over, (2) **drag** a team down
He **dragged** the heavy suitcase behind him as he walked.

rectangle *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
synonym: oblong, square, quadrangle
(1) orthogonal **rectangle**, (2) **rectangle** box
The living room had a **rectangle-shaped** coffee table in the center of it.

clap *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
synonym: applaud, spat, acclaim
(1) **clap** my hands, (2) **clap** a book shut
We **clapped** along with the singer's song.

odd *adj.* strange or unexpected; not divisible by two
synonym: strange, bizarre, abnormal
(1) in an **odd** way, (2) **odd** behavior

His grandfather was an **odd** man.

trapezoid

n. a four-sided polygon with two parallel sides and two non-parallel sides; (in North America) a quadrilateral with at least one pair of parallel sides

synonym : trapezium, trapeze

(1) the area of a **trapezoid**, (2) isosceles **trapezoid**

The building's windows were arranged in **trapezoid** shapes, giving it a modern look.

diagonal

adj. at an angle or slant; (noun) a line that runs across a surface or figure at an angle

synonym : oblique, sloping, slanting

(1) **diagonal** pattern, (2) place at a **diagonal**

The **diagonal** cut of the skirt added movement and flair to the outfit.

triangle

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

synonym : trilateral, delta, triad

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

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

rearrange

v. to change the order or position of things already made; to change the time, date, or place of an event already planned

synonym : readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule

Please **rearrange** these files as we start a new project tomorrow.

atop

adv. on, to, or at the top

synonym : upon, onto

(1) stand **atop**, (2) sit **atop** a stack of books

The eagle perched **atop** the tallest tree in the forest.

gasp

v. to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise

synonym: breathe, pant, heave

(1) **gasp** for air, (2) **gasp** in shock

The audience **gasp**ed when the magician made the rabbit disappear from the hat.

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**.

certainty

n. the state of being certain

synonym: inevitability, confidence, assurance

(1) scientific **certainty**, (2) reach **certainty** about the theory
Through investigation, his suspicions hardened into **certainty**.

cheat

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

synonym: deceive, swindle, defraud

(1) **cheat** on my taxes, (2) **cheat** in a game

Even though he knew it was wrong, he **cheated** on the exam.

wrap

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

synonym: surround, cover, bandage

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

Wrap the bandage tightly around the injured arm.

pause

v. to take a short break from talking or doing something before continuing

synonym: halt, break, intermit

(1) **pause** a moment, (2) **pause** for a reaction

The man **paused** before opening the door.

geometry

n. 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**.

slope

n. a surface with one end or side that is higher than the other

synonym: gradient, pitch, slant

(1) an abrupt **slope**, (2) slide down a **slope** on a ski

The hut stands on the **slope** of a mountain.

calculate

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

synonym: compute, figure, estimate

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

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

formula

n. a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement

synonym: expression, recipe, procedure

(1) structural **formula**, (2) a binomial **formula**

The teacher told the students to memorize the math **formula**.

shrink

v. to become smaller, or to make something smaller in size or amount

synonym: decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

minuscule

adj. extremely small; tiny

synonym: tiny, insignificant, microscopic

(1) **minuscule** amount, (2) **minuscule** letters

This ore emits **minuscule** quantities of radiation

- gap**
- n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
- synonym* : opening, lacuna, spread
- (1) the **gap** between ideal and reality, (2) distance **gap**
- Many people are working together to close the gender **gap**.
- parallelogram**
- n.* a four-sided geometric shape with opposite sides parallel to each other, characterized by its angles, sides, and area
- synonym* : rectangle, quadrangle, oblong
- (1) base of **parallelogram**, (2) opposite angles of a **parallelogram**
- In geometry class, we learned how to calculate the area of a **parallelogram**.
- stretch**
- v.* to make or be capable of making anything longer or broader without hurting or breaking
- synonym* : lengthen, prolong, extend
- (1) **stretch** along the coast, (2) **stretch** a story
- Some herds have been observed to **stretch** hundreds of kilometers.
- preceding**
- adj.* occurring or coming before something or somebody in time or order; previous or former
- synonym* : former, earlier, antecedent
- (1) **preceding** paragraph, (2) **preceding** year
- During the **preceding** quarter, the company experienced significant growth.
- ratio**
- n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
- synonym* : proportion, rate, quota
- (1) debt-to-income **ratio**, (2) **ratio** of boys to girls
- The **ratio** of water to sugar in the recipe is 1:2.

eventually

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

synonym : finally, someday, ultimately

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

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

converge

v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

synonym : congregate, assemble, concentrate

(1) **converge** of a series, (2) **converge** from different points

The two rivers **converge** into one near this area.

devious

adj. cunning and deceitful; not straightforward; tricky

synonym : cunning, deceitful, tricky

(1) **devious** plot, (2) use **devious** methods

The **devious** plan to cheat on the test was foiled by the teacher.

royal

adj. relating to or belonging to the king or queen or a member of their family

synonym : imperial, noble, aristocratic

(1) a **royal** palace, (2) prince **royal**

She is willing to give up her position in the **royal** family to marry him.

construct

v. to build or create something; to assemble or combine 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.

deceptive

adj. tending to mislead or deceive either deliberately or inadvertently; causing one to believe what is not true or fail to believe what is true

synonym : misleading, trickery, fraudulent

(1) **deceptive** practices, (2) appearances are **deceptive**
The politician's statements were found to be **deceptive** and not based on fact.

cobble

n. a rounded, irregularly shaped stone used for paving streets or for building walls; (verb) to make or repair something in a rough and hurried way

synonym: pebble, boulder, stone

(1) **cobble** driveway, (2) **cobble** up a policy accord

The town is known for its historic **cobble** streets, which were laid by hand in the 19th century.

analogous

adj. similar or equivalent in some respects, typically as a result of functioning in a similar way

synonym: similar, comparable, equivalent

(1) **analogous** fashion, (2) entirely **analogous**

The human heart is **analogous** to a pump in a plumbing system.

conundrum

n. a confusing and difficult problem or question

synonym: puzzle, riddle, enigma

(1) **conundrum** of choice, (2) pose a **conundrum**

The group faced a **conundrum** when they couldn't decide whether to go hiking or to the beach.

consecutive

adj. following in a sequence or order without interruption or break; occurring one after another

synonym: successive, sequential, uninterrupted

(1) **consecutive** holidays, (2) suffer **consecutive** defeats

The athlete won three **consecutive** championships in her sport.

accomplished

adj. having completed a task or achieved a goal successfully; skilled or proficient at something

synonym: achieved, finished, completed

(1) **accomplished** at a very early age, (2) **accomplished**

goal

She felt **accomplished** after finishing her book.

puzzle

n. a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand

synonym: plight, maze, (verb) perplex

(1) crossword **puzzle**, (2) mathematical **puzzle**

This jigsaw **puzzle** is challenging because there are no pictures.

Session 2: Spelling

1. place at a di____al
adj. at an angle or slant; (noun) a line that runs across a surface or figure at an angle
2. ad_____re film
n. a journey or a series of events that is unusual, exciting, or dangerous
3. an_____us fashion
adj. similar or equivalent in some respects, typically as a result of functioning in a similar way
4. in_____ct his comment
v. to say something, especially an opinion or a remark, abruptly while another person is speaking
5. prince ro__l
adj. relating to or belonging to the king or queen or a member of their family
6. isosceles tr_____id
n. a four-sided polygon with two parallel sides and two non-parallel sides; (in North America) a quadrilateral with at least one pair of parallel sides
7. a silent pr_____t
n. a strong expression of disagreement, disapproval, or opposition
8. opposite angles of a
par_____ram
n. a four-sided geometric shape with opposite sides parallel to each other, characterized by its angles, sides, and area
9. re_____le box
n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

ANSWERS: 1. diagonal, 2. adventure, 3. analogous, 4. interject, 5. royal, 6. trapezoid, 7. protest, 8. parallelogram, 9. rectangle

10. debt-to-income ra__o *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
11. reach ce_____ty about the theory *n.* the state of being certain
12. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
13. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
14. sit a__p a stack of books *adv.* on, to, or at the top
15. ar__e 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
16. love tr_____le *n.* a three-sided polygon with three angles; something that has three sides or parts
17. ca_____te the distance *v.* to judge or find out the amount or number of something by using mathematics
18. pr_____ng year *adj.* occurring or coming before something or somebody in time or order; previous or former
19. a binomial fo_____a *n.* a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
20. d__g a team down *v.* to pull or haul with force
21. scientific ce_____ty *n.* the state of being certain

ANSWERS: 10. ratio, 11. certainty, 12. construct, 13. mathematics, 14. atop, 15. argue, 16. triangle, 17. calculate, 18. preceding, 19. formula, 20. drag, 21. certainty

22. c__p my hands *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
23. con_____ve holidays *adj.* following in a sequence or order without interruption or break; occurring one after another
24. g__p for air *v.* to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise
25. suffer con_____ve defeats *adj.* following in a sequence or order without interruption or break; occurring one after another
26. sheer no_____se *n.* an idea, behavior, or something spoken or written that has no meaning or makes no sense or that is silly or unacceptable
27. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
28. co___e up a policy accord *n.* a rounded, irregularly shaped stone used for paving streets or for building walls; (verb) to make or repair something in a rough and hurried way
29. an abrupt sl___e *n.* a surface with one end or side that is higher than the other
30. hold a pr_____t *n.* a strong expression of disagreement, disapproval, or opposition
31. leave the house und_____ed *adj.* not perceived or discovered

ANSWERS: 22. clap, 23. consecutive, 24. gasp, 25. consecutive, 26. nonsense, 27. construct, 28. cobble, 29. slope, 30. protest, 31. undetected

32. o_d behavior *adj.* strange or unexpected; not divisible by two
33. distance g_p *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
34. c__p a book shut *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
35. st____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
36. magical won_____nd *n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
37. in_____ct my feelings *v.* to say something, especially an opinion or a remark, abruptly while another person is speaking
38. use de_____s methods *adj.* cunning and deceitful; not straightforward; tricky
39. orthogonal re_____le *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
40. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
41. appearances are de_____ve *adj.* tending to mislead or deceive either deliberately or inadvertently; causing one to believe what is not true or fail to believe what is true

ANSWERS: 32. odd, 33. gap, 34. clap, 35. stretch, 36. wonderland, 37. interject, 38. devious, 39. rectangle, 40. eventually, 41. deceptive

42. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
43. ra__o of boys to girls *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
44. co_____um of choice *n.* a confusing and difficult problem or question
45. Alice's won_____nd *n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
46. ch__t on my taxes *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
47. co___e driveway *n.* a rounded, irregularly shaped stone used for paving streets or for building walls; (verb) to make or repair something in a rough and hurried way
48. de_____s plot *adj.* cunning and deceitful; not straightforward; tricky
49. base of par_____ram *n.* a four-sided geometric shape with opposite sides parallel to each other, characterized by its angles, sides, and area
50. h__f and puff upstairs *n.* a fit of anger, annoyance, or resentment; a state of irritation or sulking; (verb) to exhale forcefully or audibly in a show of annoyance, anger, or frustration

ANSWERS: 42. eventually, 43. ratio, 44. conundrum, 45. wonderland, 46. cheat, 47. cobble, 48. devious, 49. parallelogram, 50. huff

51. give a h__f of relief *n.* a fit of anger, annoyance, or resentment; a state of irritation or sulking; (verb) to exhale forcefully or audibly in a show of annoyance, anger, or frustration
52. Euclidean ge____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
53. pose a co_____um *n.* a confusing and difficult problem or question
54. d__g a chair over *v.* to pull or haul with force
55. slide down a sl__e on a ski *n.* a surface with one end or side that is higher than the other
56. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
57. re_____ge his schedule *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
58. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
59. accidentally ov____ard their talk *v.* to hear what other people are saying without intending to and their knowledge
60. co_____ge of a series *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
61. di_____al pattern *adj.* at an angle or slant; (noun) a line that runs across a surface or figure at an angle

ANSWERS: 51. huff, 52. geometry, 53. conundrum, 54. drag, 55. slope, 56. mathematics, 57. rearrange, 58. calculate, 59. overhear, 60. converge, 61. diagonal

62. w__p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
63. entirely an_____us *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way
64. the g_p between ideal and reality *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
65. d__e to take risks *v.* to have the courage to do something
66. pa__e a moment *v.* to take a short break from talking or doing something before continuing
67. talk no_____se *n.* an idea, behavior, or something spoken or written that has no meaning or makes no sense or that is silly or unacceptable
68. mi_____le amount *adj.* extremely small; tiny
69. structural fo_____a *n.* a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
70. tem_____tal artist *adj.* relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable
71. in an o_d way *adj.* strange or unexpected; not divisible by two
72. the area of a tr_____id *n.* a four-sided polygon with two parallel sides and two non-parallel sides; (in North America) a quadrilateral with at least one pair of parallel sides

ANSWERS: 62. wrap, 63. analogous, 64. gap, 65. dare, 66. pause, 67. nonsense, 68. minuscule, 69. formula, 70. temperamental, 71. odd, 72. trapezoid

73. mathematical pu___e *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
74. happen to ov____ar a conversation *v.* to hear what other people are saying without intending to and their knowledge
75. mi_____le letters *adj.* extremely small; tiny
76. a ro__l palace *adj.* relating to or belonging to the king or queen or a member of their family
77. ch__t in a game *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
78. und_____ed cancer *adj.* not perceived or discovered
79. g__p in shock *v.* to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise
80. acc_____hed at a very early age *adj.* having completed a task or achieved a goal successfully; skilled or proficient at something
81. sh___k with fear *v.* to become smaller, or to make something smaller in size or amount
82. de_____ve practices *adj.* tending to mislead or deceive either deliberately or inadvertently; causing one to believe what is not true or fail to believe what is true

ANSWERS: 73. puzzle, 74. overhear, 75. minuscule, 76. royal, 77. cheat, 78. undetected, 79. gasp, 80. accomplished, 81. shrink, 82. deceptive

83. spherical ge____ry *n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
84. d__e not go *v.* to have the courage to do something
85. pr_____ng paragraph *adj.* occurring or coming before something or somebody in time or order; previous or former
86. pa__e for a reaction *v.* to take a short break from talking or doing something before continuing
87. crossword pu___e *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
88. co_____ge from different points *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
89. stand a__p *adv.* on, to, or at the top
90. re_____ge the furniture *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
91. gastronomic ad_____res *n.* a journey or a series of events that is unusual, exciting, or dangerous
92. sh___k the tumor *v.* to become smaller, or to make something smaller in size or amount
93. st_____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking

ANSWERS: 83. geometry, 84. dare, 85. preceding, 86. pause, 87. puzzle, 88. converge, 89. atop, 90. rearrange, 91. adventure, 92. shrink, 93. stretch

94. acc_____hed goal *adj.* having completed a task or achieved a goal successfully; skilled or proficient at something
95. tr_____le shape *n.* a three-sided polygon with three angles; something that has three sides or parts
96. tem_____tal player *adj.* relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable
97. w__p up a meeting *v.* to cover or enclose something entirely with paper, cloth, or other material
98. ar__e 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

ANSWERS: 94. accomplished, 95. triangle, 96. temperamental, 97. wrap, 98. argue

Session 3: Fill in the Blanks

1. She is willing to give up her position in the _____ family to marry him.
adj. relating to or belonging to the king or queen or a member of their family
2. This ore emits _____ quantities of radiation
adj. extremely small; tiny
3. The teacher told the students to memorize the math _____.
n. a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
4. The Pythagorean theorem is used to calculate the length of the sides of a right _____.
n. a three-sided polygon with three angles; something that has three sides or parts
5. She felt _____ after finishing her book.
adj. having completed a task or achieved a goal successfully; skilled or proficient at something
6. His grandfather was an ____ man.
adj. strange or unexpected; not divisible by two
7. The living room had a _____ coffee table in the center of it.
n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
8. The man _____ before opening the door.
v. to take a short break from talking or doing something before continuing

ANSWERS: 1. royal, 2. minuscule, 3. formula, 4. triangle, 5. accomplished, 6. odd, 7. rectangle-shaped, 8. paused

9. Through investigation, his suspicions hardened into _____.
- n.* the state of being certain
10. The mathematician pioneered fractal _____.
- n.* the area of pure mathematics that deals with the points, lines, curves, and surfaces
11. 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
12. Many people are working together to close the gender ____.
- n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
13. He couldn't _____ the actual value of the artwork.
- v.* to judge or find out the amount or number of something by using mathematics
14. The corporation _____ dominated the entire tobacco business.
- adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
15. In geometry class, we learned how to calculate the area of a _____.
- n.* a four-sided geometric shape with opposite sides parallel to each other, characterized by its angles, sides, and area
16. She let out a ____ of frustration after the difficult workout.
- n.* a fit of anger, annoyance, or resentment; a state of irritation or sulking; (verb) to exhale forcefully or audibly in a show of annoyance, anger, or frustration

ANSWERS: 9. certainty, 10. geometry, 11. constructs, 12. gap, 13. calculate, 14. eventually, 15. parallelogram, 16. huff

17. Even though he knew it was wrong, he _____ on the exam.

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

18. The group faced a _____ when they couldn't decide whether to go hiking or to the beach.

n. a confusing and difficult problem or question

19. The eagle perched _____ the tallest tree in the forest.

adv. on, to, or at the top

20. Doctors made mistakes, and diseases remained _____.

adj. not perceived or discovered

21. _____ the bandage tightly around the injured arm.

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

22. The politician's statements were found to be _____ and not based on fact.

adj. tending to mislead or deceive either deliberately or inadvertently; causing one to believe what is not true or fail to believe what is true

23. The parents spoke to their children in no-_____ tones.

n. an idea, behavior, or something spoken or written that has no meaning or makes no sense or that is silly or unacceptable

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

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

ANSWERS: 17. cheated, 18. conundrum, 19. atop, 20. undetected, 21. Wrap, 22. deceptive, 23. nonsense, 24. stretch

25. She was inside at the time and _____ the conversation.
v. to hear what other people are saying without intending to and their knowledge
26. I wouldn't _____ to speak to him like that.
v. to have the courage to do something
27. He _____ the heavy suitcase behind him as he walked.
v. to pull or haul with force
28. This jigsaw _____ is challenging because there are no pictures.
n. a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
29. The _____ plan to cheat on the test was foiled by the teacher.
adj. cunning and deceitful; not straightforward; tricky
30. The audience _____ when the magician made the rabbit disappear from the hat.
v. to inhale sharply and audibly, often in response to strong emotion or sensation; to catch one's breath suddenly, often due to shock or surprise
31. Please _____ these files as we start a new project tomorrow.
v. to change the order or position of things already made; to change the time, date, or place of an event already planned
32. This shirt will _____ in the wash.
v. to become smaller, or to make something smaller in size or amount

ANSWERS: 25. overheard, 26. dare, 27. dragged, 28. puzzle, 29. devious, 30. gasped, 31. rearrange, 32. shrink

33. We _____ along with the singer's song.
- v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
34. Please do not _____ personal opinions.
- v.* to say something, especially an opinion or a remark, abruptly while another person is speaking
35. The two rivers _____ into one near this area.
- v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
36. The hut stands on the _____ of a mountain.
- n.* a surface with one end or side that is higher than the other
37. The town is known for its historic _____ streets, which were laid by hand in the 19th century.
- n.* a rounded, irregularly shaped stone used for paving streets or for building walls; (verb) to make or repair something in a rough and hurried way
38. The _____ of water to sugar in the recipe is 1:2.
- n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
39. 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
40. The human heart is _____ to a pump in a plumbing system.
- adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way

ANSWERS: 33. clapped, 34. interject, 35. converge, 36. slope, 37. cobble, 38. ratio, 39. argue, 40. analogous

41. During the _____ quarter, the company experienced significant growth.
adj. occurring or coming before something or somebody in time or order; previous or former
42. He sailed the Atlantic Ocean multiple times during his _____.
n. a journey or a series of events that is unusual, exciting, or dangerous
43. The _____ cut of the skirt added movement and flair to the outfit.
adj. at an angle or slant; (noun) a line that runs across a surface or figure at an angle
44. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
45. The project's success largely depends on the _____ weather in the region.
adj. relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable
46. The colorful garden was a _____ of various plants and flowers.
n. a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
47. The building's windows were arranged in _____ shapes, giving it a modern look.
n. a four-sided polygon with two parallel sides and two non-parallel sides; (in North America) a quadrilateral with at least one pair of parallel sides

ANSWERS: 41. preceding, 42. adventures, 43. diagonal, 44. mathematics, 45. temperamental, 46. wonderland, 47. trapezoid

48. The athlete won three _____ championships in her sport.

adj. following in a sequence or order without interruption or break; occurring one after another

49. He left the party in _____ at its radical political stance.

n. a strong expression of disagreement, disapproval, or opposition

ANSWERS: 48. consecutive, 49. protest