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Eduardo Sáenz de Cabezón: Math is forever | TED Talk

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

Advanced Words Only

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Session 1: Word List

hardy

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

synonym: tough, sturdy, resilient

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

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

creditor

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

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

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

intuition

n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

synonym: instinct, gut feeling, sixth sense

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

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

tame

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

because of specific training

synonym: domesticate, soften, (adjective) harmless

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

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

pitfall

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

synonym: trap, snare, hazard

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

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

oncology

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

synonym: cancer treatment, study of tumors

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

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

envy

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

synonym: covet, resent, grudge

(1) **envy** his success, (2) feeling **envy** toward him

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

rigor

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

synonym: strictness, exactness, accuracy

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

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

hypotenuse

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

synonym: oblique, diagonal, slant

(1) right-angled **hypotenuse**, (2) calculate the **hypotenuse**
To find the **hypotenuse** length, you can use the Pythagorean theorem.

devote

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

synonym: commit, dedicate, apply

(1) **devote** all of my energies, (2) **devote** my own life
He **devoted** himself to studying the history of ancient civilizations.

conjecture

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

synonym: theory, guess, speculation

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

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

hexagon

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

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

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

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

honeycomb

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

synonym: hexagonal, beehive, lattice

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

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

Kelvin

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

synonym: K, degree

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

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

truncate

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

synonym: shorten, cut back, abbreviate

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

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

octahedron

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

synonym: eight-sided figure, polyhedron

- (1) **octahedron** crystal, (2) interconnected **octahedrons**

The building's design featured an **octahedron-shaped** atrium.

Session 2: Spelling

1. e__y his success
v. to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
2. a t__e animal
v. to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training
3. tr____te a number to 2 decimal places
v. to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it
4. pi____l to be avoided
n. a hidden or unsuspected danger or difficulty; a trap or snare
5. ha__y breed
adj. able to withstand harsh conditions or difficult circumstances; robust, sturdy, or resilient
6. bankrupt cr____or
n. a person, company, etc. to whom a debtor owes money
7. on____gy center
n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies

ANSWERS: 1. envy, 2. tame, 3. truncate, 4. pitfall, 5. hardy, 6. creditor, 7. oncology

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|----------------------------|---|
| 8. he_____n pattern | <i>n.</i> a six-sided polygon with six angles and six sides of equal length |
| 9. ho_____mb lattice | <i>n.</i> a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young |
| 10. the cr_____or's claims | <i>n.</i> a person, company, etc. to whom a debtor owes money |
| 11. Ke____n measurement | <i>n.</i> a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin |
| 12. tr_____te text | <i>v.</i> to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it |
| 13. con_____re theory | <i>n.</i> an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof |
| 14. oct_____on crystal | <i>n.</i> a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle |
| 15. in_____on research | <i>n.</i> the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why |

ANSWERS: 8. hexagon, 9. honeycomb, 10. creditor, 11. Kelvin, 12. truncate, 13. conjecture, 14. octahedron, 15. intuition

16. academic ri__r *n.* strictness or severity in opinion, temper, or judgment
17. feeling e__y toward him *v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
18. de___e all of my energies *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
19. right-angled hyp_____se *n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides
20. de___e my own life *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
21. potential pi_____l *n.* a hidden or unsuspected danger or difficulty; a trap or snare
22. calculate the hyp_____se *n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides
23. t__e a wild beast *v.* to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training

ANSWERS: 16. rigor, 17. envy, 18. devote, 19. hypotenuse, 20. devote, 21. pitfall, 22. hypotenuse, 23. tame

24. the ri__r of the law *n.* strictness or severity in opinion, temper, or judgment
25. he_____n head bolt *n.* a six-sided polygon with six angles and six sides of equal length
26. creative in_____on *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
27. ho_____mb pattern *n.* a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
28. modern on_____gy treatment *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
29. Ke____n scale *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
30. interconnected oct_____ons *n.* a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle
31. scientific con_____re *n.* an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof

ANSWERS: 24. rigor, 25. hexagon, 26. intuition, 27. honeycomb, 28. oncology, 29. Kelvin, 30. octahedron, 31. conjecture

32. ha__y plants

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

ANSWERS: 32. hardy

Session 3: Fill in the Blanks

1. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
n. a person, company, etc. to whom a debtor owes money
2. One of the biggest _____ of starting a new business is underestimating the costs.
n. a hidden or unsuspected danger or difficulty; a trap or snare
3. The building's design featured an _____ atrium.
n. a geometrical solid or three-dimensional shape with eight equally sized and shaped sides, each forming an equilateral triangle
4. He _____ himself to studying the history of ancient civilizations.
v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
5. You can use a command line tool to _____ the long file name.
v. to shorten or cut off the end or tip of something; to make something shorter or briefer by removing or omitting parts of it
6. When the dead body was found, _____ mortis had already begun.
n. strictness or severity in opinion, temper, or judgment
7. The pharmaceutical company unveiled its latest breakthrough drug for the _____ market.
n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies

ANSWERS: 1. creditor, 2. pitfalls, 3. octahedron-shaped, 4. devoted, 5. truncate, 6. rigor, 7. oncology

8. The beehive was made of an intricate _____ pattern.
- n.* a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
9. The honeycomb structure of a beehive is made up of _____.
- n.* a six-sided polygon with six angles and six sides of equal length
10. There was much _____ about the cause of the fire, but the investigation is still ongoing.
- n.* an opinion or conclusion formed based on incomplete information; a theory or speculation that is unsupported by firm evidence or proof
11. We have to _____ substantial financial deficits at first.
- v.* to make wild animals domesticated or controlled, especially through specific training; (adjective) not dangerous or afraid of people, either naturally or because of specific training
12. I can't help but _____ my friend's ability to stay calm in stressful situations.
- v.* to experience a feeling of jealousy or resentment towards someone because of their possessions, qualities, or achievements; to desire to have something that someone else has; (noun) a feeling of resentment or jealousy towards someone else's perceived advantage or success
13. 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
14. Some studies suggest that people's _____ can be influenced by their experiences and biases.
- n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

ANSWERS: 8. honeycomb, 9. hexagons, 10. conjecture, 11. tame, 12. envy, 13. hardy, 14. intuitions

15. The scientist cooled the sample to just a couple of _____ to observe quantum effects.
- n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
16. To find the _____ length, you can use the Pythagorean theorem.
- n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides

ANSWERS: 15. Kelvin, 16. hypotenuse