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Vocabulary Builder Reference from...

Dan Finkel: Can you solve the world's most evil wizard riddle? | TED Talk
https://www.ted.com/talks/dan_finkel_can_you_solve_the_world_s_most_evil_wizard_riddle

Advanced Words Only

Session 1: Word List

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.

symmetrical

adj. having similarity in size, shape, and relative position of corresponding parts

synonym: harmonious, balanced, proportional

(1) **symmetrical** triangle, (2) **symmetrical** pattern

This figure is **symmetrical** about the x-axis.

midpoint

n. the exact middle point or position between two things or places; a point that is equidistant from two other points

synonym: center point, halfway point

(1) **midpoint** formula, (2) **midpoint** theorem

The **midpoint** between New York City and Los Angeles is located in Kansas.

Session 2: Spelling

1.	mi____nt formula	*n.*	the exact middle point or position between two things or places; a point that is equidistant from two other points
2.	mi____nt theorem	*n.*	the exact middle point or position between two things or places; a point that is equidistant from two other points
3.	sym______al triangle	*adj.*	having similarity in size, shape, and relative position of corresponding parts
4.	sym______al pattern	*adj.*	having similarity in size, shape, and relative position of corresponding parts
5.	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
6.	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

ANSWERS: 1. midpoint, 2. midpoint, 3. symmetrical, 4. symmetrical, 5. hypotenuse, 6. hypotenuse

Session 3: Fill in the Blanks

1. 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

2. This figure is _____ about the x-axis.

adj. having similarity in size, shape, and relative position of corresponding parts

3. The _____ between New York City and Los Angeles is located in Kansas.

n. the exact middle point or position between two things or places; a point that is equidistant from two other points

ANSWERS: 1. hypotenuse, 2. symmetrical, 3. midpoint