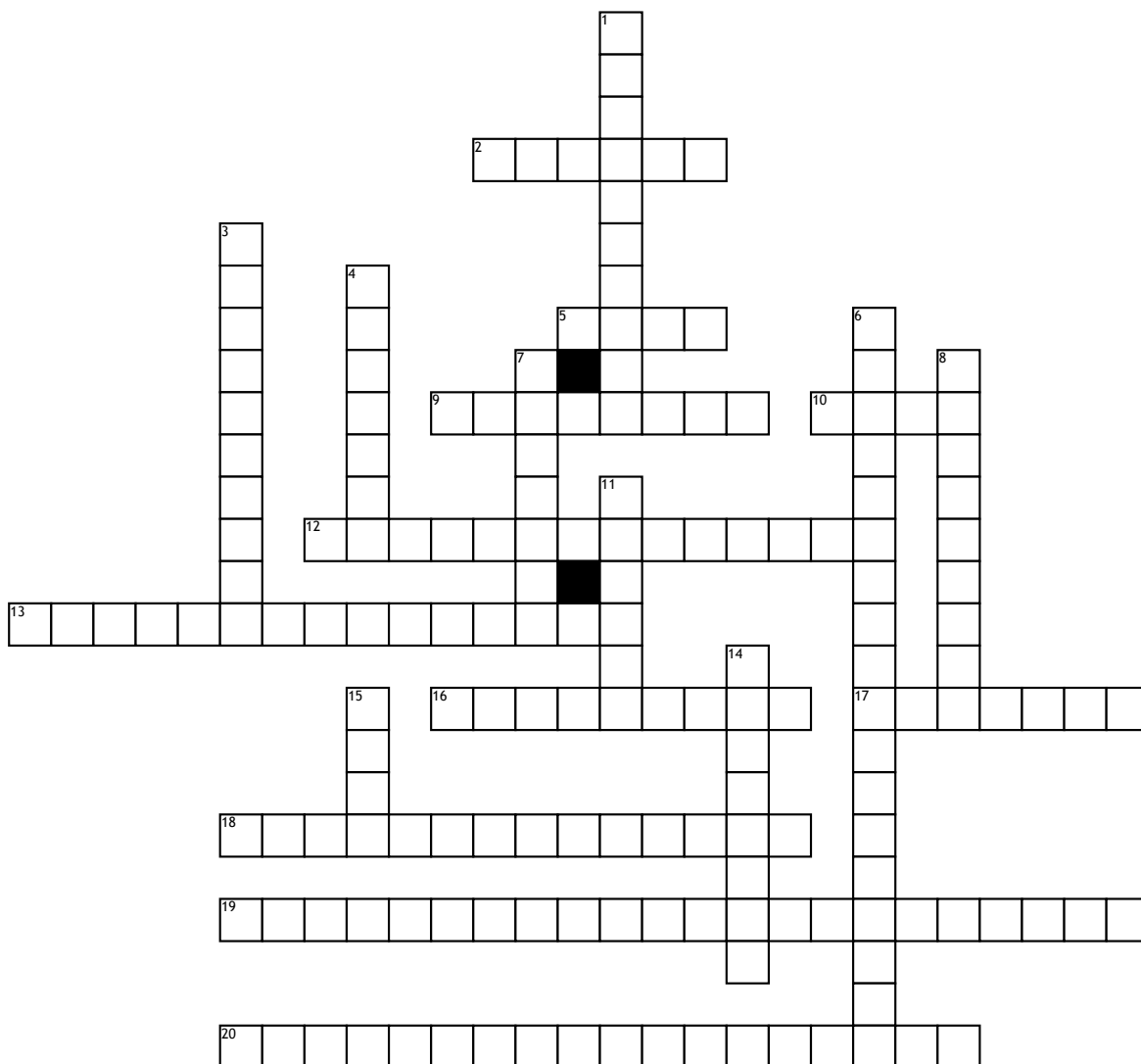


Geometry Crossword Puzzle



Across

2. _____ is a segment to the trigonometric function that is equal to the ratio of the side adjacent to an acute angle (in a right-angled triangle) to the hypotenuse.

5. _____ is the segment whose endpoints are the midpoints of the legs. (Can also be known as catheti.)

9. _____ of an angle is the ratio of the length of the leg adjacent to the angle to the length of the hypotenuse. (Is a distance-preserving transformation between metric spaces, usually assumed to be bijective.)

10. A segment that connects any two nonconsecutive vertices is a _____. (Can be a quadrilateral whose four sides can be grouped into two pairs of equal-length sides that are adjacent to each other.)

12. If the legs of a trapezoid are congruent, the trapezoid is an _____. (It is a polygon that is equiangular.)

13. The common endpoint of two sides is a _____

16. _____ is the locus of points in space that are fixed distance from a given point. (A quadrilateral with only one pair of parallel sides.)

17. If no diagonal contains points in the exterior, then the polygon is _____. (Line on the outside of the circle and only touches the end of the circle.)

18. _____ is a secant that lies in the exterior of the circle with one endpoint on the circle. (The sides of a regular polygon are the line segments that make it up.)

19. A dilation with a scale factor greater than 0 but less than 1 is a _____. (Connects the midpoints of the two congruent sides of the trapezoid.)

20. Each segment that forms a polygon is a _____. (It is a special case of a trapezoid)

Down

1. _____ is a quadrilateral with exactly two pairs of congruent conservative sides. (a half of a sphere.)

3. _____ of an angle is the ratio of the length of the leg opposite the angle to the length of the leg adjacent to the angle.)

4. A dilation with a scale factor greater than 1 is an _____. (having an outline or surface that curves inward like the interior of a circle or sphere.)

6. _____ connects the center of the sphere to any point on the sphere. (Relates to the sides of a right triangle to its angles.)

7. _____ is a ratio of two sides of a right triangle. (Having an outline or surface that curves inward like the interior of a circle or sphere.)

8. _____ is half of a sphere. (Can also refer to the rewriting of an expression into a simpler form.)

11. _____ divides a sphere into two hemispheres. (a round solid figure, or its surface, with every point on its surface equidistant from its center.)

14. _____ of a trapezoid are to consecutive angles whose common side is a base. (Joining two opposite corners of a square, rectangle, or other straight-sided)

15. _____ of an angel is the ratio of the length of the leg opposite the angle to the length of the hypotenuse. (Opposite a given angle in a right triangle to the hypotenuse.)