9th-12th Grade Math Vocabulary TEST 1

Match the word with its definition by writing the correct number in the space provided.

_____ interior angle

_____ classify

_____ square root

_____ 2-way frequency table

_____ AA similarity

_____ coordinate axes

_____ median

_____ equilateral triangle

_____ congruent side

_____ bisect

1   To divide into two equal sections or two equal halves

2   Sides that are exactly the same size

3   If two angles of one triangle are congruent to two corresponding angles in another triangle, then the triangles are similar

4   To sort into categories or to arrange into groups by attribute

5   A triangle with 3 equal sides and 3 equal angles

6   A table in which frequencies correspond to two variables

7   The square root of a number is a nonnegative number which when multiplied by itself equals the given number

8   A set of lines or curves used to define a coordinate system

9   An angle inside a shape

10   The middle value of a set of data that are arranged in order of size

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9th-12th Grade Math Vocabulary TEST 2

Match the word with its definition by writing the correct number in the space provided.

_____ coordinate plane

_____ formula

_____ dilation

_____ diameter

_____ radius/radii

_____ ellipse

_____ scalar

_____ zero matrix

_____ rational expression

_____ circumference

1   The distance around a circle; the perimeter of a circle

2   A straight line going through the center of a circle connecting two points on the circumference

3   The plane containing the "x" axis and "y" axis

4   An expression that can be written as a polynomial divided by a polynomial

5   A change in size of a figure without changing its angles

6   A mathematical rule written using symbols, usually as an equation describing a certain relationship between quantities

7   A matrix for which all elements are equal to 0

8   The distance from the center of a circle or a sphere to any point on the circle or a sphere

9   A stretched out or smashed circle

10 Any real number, or any quantity that can be measured using a single real number

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9th-12th Grade Math Vocabulary TEST 3

Match the word with its definition by writing the correct number in the space provided.

_____ sphere volume	1 The symbol √ , which is used to represent the square root or nth root of a number
_____ radical	2 How far a number is from zero
_____ complementary angles	3 A interval where the function's slope is positive
	4 The standard deviation is defined as the average amount by which individual data items in a data set differ from the arithmetic mean of all the data in the set
_____ increasing intervals	5 Two angles that add up to equal 90°
_____ multiplicative inverses	
_____ standard deviation	6 A value that "lies outside" (is much smaller or larger than) most of the other values in a set of data
_____ absolute value	7 Two numbers that when multiplied together equal 1; example 4 multiplied by 1/4
_____ outlier	8 When two triangles have corresponding sides that are congruent, the triangles are congruent
_____ parabola	9 The total amount of space enclosed in a sphere
_____ side-side-side (SSS)	10 A special curve, shaped like an arch, the graph of a quadratic equation

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9th-12th Grade Math Vocabulary TEST 4

Match the word with its definition by writing the correct number in the space provided.

_____ factor

_____ solution set

_____ combination

_____ sample survey

_____ coordinate plane

_____ asymptote

_____ polar equation

_____ Pascal's Triangle

_____ ellipse

_____ corresponding angle

1   The plane containing the "x" axis and "y" axis

2   A number that is multiplied by another number to find a product

3   A line that a graph gets closer and closer to, but never touches or crosses

4   The arrangement of the binomial coefficients in a pattern of triangle

5   An equation for a curve written in terms of the polar coordinates r and θ

6   An arrangement of objects in which order does not matter

7   A survey of a population made by using only a portion of the population

8   A stretched out or smashed circle

9   When two lines are crossed by another line (which is called the Transversal), the angles in matching corners are called corresponding angles

10 Any and all value(s) of the variable(s) that satisfies an equation, inequality, system of equations, or system of inequalities

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9th-12th Grade Math Vocabulary TEST 5

Match the word with its definition by writing the correct number in the space provided.

_____ compound events

_____ distributive property

_____ constant function

_____ function

_____ acute angle

_____ histogram

_____ inference

_____ law of sines

_____ Pythagorean theorem

_____ theorem

1   Equations relating the sines of the interior angles of a triangle and the corresponding opposite sides

2   A number outside the parenthesis can be multiplied to each term within the parenthesis; Ex. a(b + c) = ab + ac

3   An angle with a measure greater than 0° and less than 90°

4   A special relationship between values: Each input values gives back exactly one output value

5   A bar chart representing a frequency distribution

6   A conclusion drawn from multiple observations

7   An assertion that can be proved true using the rules of logic

8   Describes the probability resulting from two or more simple events

9   In a right angled triangle the square of the long side is equal to the sum of the squares of the other two sides

10   A linear function of the form y = b, where b is a constant

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9th-12th Grade Math Vocabulary TEST 6

Match the word with its definition by writing the correct number in the space provided.

_____ intercept

_____ causation

_____ AA similarity

_____ hyperbola

_____ scatter plot

_____ complementary angles

_____ diameter

_____ coordinate

_____ congruent angle

_____ matrix/matrices

1   Two angles that add up to equal 90°

2   Angles that have the exact same measurement

3   A graph of plotted points that show the relationship between two sets of data

4   The point at which a line or curve intersects an axis

5   A pair of numbers used to determine the position of a point on a graph

6   If two angles of one triangle are congruent to two corresponding angles in another triangle, then the triangles are similar

7   Changes in x cause changes in y in a list of data

8   Hyperbola is a conic section in which difference of distances of all the points from two fixed points (called `foci`) is constant

9   A rectangular (or square) array of numbers

10   A straight line going through the center of a circle connecting two points on the circumference

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9th-12th Grade Math Vocabulary TEST 7

Match the word with its definition by writing the correct number in the space provided.

_____ trigonometric function

_____ base (of a solid figure)

_____ modeling

_____ coordinate axes

_____ area

_____ exponential decay

_____ probability

_____ quadratic formula

_____ standard deviation

_____ factor

1 A formula for the roots of a quadratic equation

2 A number that is multiplied by another number to find a product

3 The process of representing real life situations through equations or inequalities

4 A set of lines or curves used to define a coordinate system

5 A flat surface of a solid figure by which the figure is measured or classified

6 How likely it is for an event to happen

7 Defined as the average amount by which individual data items in a data set differ from the arithmetic mean of all the data in the set

8 A decrease that follows an exponential function

9 The six functions sine, cosine, tangent, cosecant, secant, and cotangent

10 The amount of surface inside a closed shape; measured in square units

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9th-12th Grade Math Vocabulary TEST 8

Match the word with its definition by writing the correct number in the space provided.

_____ solve

_____ quadratic equation/functi

_____ linear equation

_____ solution set

_____ perimeter

_____ midline

_____ radical

_____ number line

_____ exponential growth

_____ velocity

1 The rate of change of the position of an object

2 An increase that follows an exponential function

3 To work out the answer

4 Any and all value(s) of the variable(s) that satisfies an equation, inequality, system of equations, or system of inequalities

5 A line on which ordered numbers can be written or visualized and may include negative numbers

6 An equation that includes only second degree polynomials

7 The midline is a horizontal axis that is used as the reference line about which the graph of a periodic function oscillates

8 An equation that makes a straight line when it is graphed

9 The symbol √ , which is used to represent the square root or nth root of a number.

10 The distance around the outside of a figure or shape

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9th-12th Grade Math Vocabulary TEST 9

Match the word with its definition by writing the correct number in the space provided.

_____ Associative Property
of Addition

_____ trigonometric ratios

_____ parallelogram rule

_____ complex number

_____ compute

_____ cylinder

_____ geometric figure

_____ outcome

_____ ellipse

_____ area

1 To solve problems that use numbers

2 The amount of surface inside a closed shape; measured in square units

3 One of the possible results of a probability experiment

4 The sum of the squares of the lengths of the four sides of a parallelogram equals the sum of the squares of the lengths of the two diagonals

5 A ratio that describes a relationship between sides and angles of triangles

6 A solid object with 2 identical flat ends that are circular and 1 curved side

7 A number that can be written by the sum or difference of a real number and an imaginary number

8 A figure formed by any combination of points, lines, planes, curves, or surfaces in one, two, or three dimensions

9 The property that states that when adding three or more real numbers, the sum is always the same regardless of their grouping

10 A stretched out or smashed circle

9th-12th Grade Math Vocabulary TEST 10

Match the word with its definition by writing the correct number in the space provided.

_____ hyperbola

_____ polygon

_____ standard deviation

_____ symmetric

_____ classify

_____ determine

_____ increasing intervals

_____ decreasing intervals

_____ ratio

_____ formula

1 A closed figure that has three or more sides, no curved lines, and no intersections

2 The standard deviation is defined as the average amount by which individual data items in a data set differ from the arithmetic mean of all the data in the set

3 An interval where a function's slope is negative

4 To sort into categories or to arrange into groups by attribute

5 Hyperbola is a conic section in which difference of distances of all the points from two fixed points (called `foci`) is constant

6 Describes a geometric figure or a graph consisting of two parts that are congruent to each other

7 A comparison of two numbers, often written as a fraction

8 To find or figure out

9 A mathematical rule written using symbols, usually as an equation describing a certain relationship between quantities

10 A interval where the function's slope is positive

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9th-12th Grade Math Vocabulary TEST 11

Match the word with its definition by writing the correct number in the space provided.

_____ rotation

_____ binomial Theorem

_____ distributive property

_____ scale factor

_____ irrational numbers

_____ number line

_____ equivalent expression

_____ symmetric

_____ frequency table

_____ constant function

1 Expressions that have the same value but are presented in a different format using the properties of numbers

2 A line on which ordered numbers can be written or visualized and may include negative numbers

3 A number outside the parenthesis can be multiplied to each term within the parenthesis; Ex. a(b + c) = ab + ac

4 The ratio of any two corresponding lengths in two similar geometric figures

5 Binomial Theorem is used to expand powers of binomials

6 A transformation of a figure by turning it about a point or axis

7 A number that cannot be written as a simple fraction - the decimal goes on forever without repeating

8 A table that shows how often each item, number, or range of numbers occurs in a set of data

9 A linear function of the form y = b, where b is a constant

10 Describes a geometric figure or a graph consisting of two parts that are congruent to each other

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9th-12th Grade Math Vocabulary TEST 12

Match the word with its definition by writing the correct number in the space provided.

_____ analyze

_____ compound events

_____ congruent angle

_____ integer exponent

_____ intersection

_____ correlation

_____ congruent triangle

_____ outcome

_____ inscribe

_____ vertex/vertices

1   One of the possible results of a probability experiment

2   The degree to which two variables are related

3   A corner point of a geometric figure

4   An exponent that is any integer; positive, negative, or 0

5   Examining parts to understand how they work together

6   The point at which lines or curves meet; the line where planes meet

7   To draw on the inside of, touching as many points as possible

8   Triangles that are exactly the same size

9   Describes the probability resulting from two or more simple events

10   Angles that have the exact same measurement

9th-12th Grade Math Vocabulary TEST 13

Match the word with its definition by writing the correct number in the space provided.

_____ rate of change

_____ random sample

_____ amplitude

_____ outlier

_____ marginal relative frequency

_____ equilateral triangle

_____ theorem

_____ law of cosines

_____ Commutative Property of Addition

_____ conclusion

1 The ratio of the change in the output value and change in the input value of a function

2 A triangle with 3 equal sides and 3 equal angles

3 Half the maximum peak-to-peak value of a periodic function

4 An assertion that can be proved true using the rules of logic

5 A statement that follows logically from other facts

6 This property means that addends can be added in any order and the sum is always the same

7 An equation relating the cosine of an interior angle and the lengths of the sides of a triangle

8 A sample in which every individual or element in the population has an equal chance of being selected

9 The entries in the "total" row and "total" column of a two-way relative frequency table

10 A value that "lies outside" (is much smaller or larger than) most of the other values in a set of data

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9th-12th Grade Math Vocabulary TEST 14

Match the word with its definition by writing the correct number in the space provided.

_____ distance formula

_____ circumference

_____ evaluate

_____ curve

_____ trigonometric ratios

_____ factor

_____ plot

_____ combination

_____ circular

_____ Fibonacci sequence

1   To solve or find the value of an expression

2   The sequence of numbers 1, 1, 2, 3, 5, 8, 13, 21, 34, for which the next term is found by adding the previous two terms

3   An arrangement of objects in which order does not matter

4   The formula for finding the distance between two points

5   Having the shape of a perfect circle, or resembling a circle in shape

6   The distance around a circle; the perimeter of a circle

7   Locating and marking a point when given its coordinates

8   A ratio that describes a relationship between sides and angles of triangles

9   A line that is rounded

10   A number that is multiplied by another number to find a product

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9th-12th Grade Math Vocabulary TEST 15

Match the word with its definition by writing the correct number in the space provided.

_____ asymptote

_____ cube root

_____ quadratic formula

_____ cone volume formula

_____ probability

_____ zero matrix

_____ hexagon

_____ exponent

_____ parallelogram rule

_____ function notation

1   A polygon with 6 sides

2   f(x); an alternative to the "y=" equation

3   How likely it is for an event to happen

4   The sum of the squares of the lengths of the four sides of a parallelogram equals the sum of the squares of the lengths of the two diagonals

5   A matrix for which all elements are equal to 0

6   A mathematical notation indicating the number of times a quantity is multiplied by itself

7   A value that, when used in a multiplication three times, gives that number

8   The volume (V) of a cone is equal to 1/3π*r2*h

9   A line that a graph gets closer and closer to, but never touches or crosses

10   A formula for the roots of a quadratic equation

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