

Math

Common Core State Standards

High School Geometry

Coordinate Geometry, Triangles, Parallelograms, Similarity, Three-Dimensional Figures, Probability, and more!

BUILDING BLOCKS OF GEOMETRY G.CO.1

Points, Lines, & Planes

A **point** is an exact location. It has no size or shape. Points are typically labeled with capital letters.

EX: point *G* and point *F*



A **line** is made up of an infinite number of points. It has infinite length and no width. There is exactly one line through any two points. Lines are typically named by a lowercase script letter or by two points on the line.

EX: line *l*, $\overleftrightarrow{CD}$, $\overleftrightarrow{DC}$, line $\overleftrightarrow{CD}$, line $\overleftrightarrow{DC}$



A **plane** is a flat surface made up of an infinite number of points. It has no thickness and extends infinitely in all directions. There is exactly one plane through any three points. Planes are typically named by a capital script letter or by three points on the plane that do not lie in the same line.

EX: plane *P*, plane $\overleftrightarrow{RST}$, plane $\overleftrightarrow{SRT}$, plane $\overleftrightarrow{STR}$, plane $\overleftrightarrow{TSR}$, plane $\overleftrightarrow{TRS}$



Collinear points lie on the same line, while **noncollinear points** do not. **Coplanar points** lie in the same plane, while **noncoplanar points** do not.

Distance & Midpoints

A **line segment** is a section of a line that starts at one point and ends at another point.

These points are the **endpoints** of the line segment. Because a line segment has a starting point and an ending point, it has finite length that can be measured.

EX: segment $\overline{XY}$, segment $\overline{YX}$, $\overline{XY}$, $\overline{YX}$ has length 5.2 cm

The **midpoint** of a segment is the point that lies halfway between the endpoints. A **segment bisector** is a segment, line, or plane that intersects a segment at its midpoint.



Angles

A **ray** is part of a line. Rays have one endpoint and extend infinitely in one direction. Two rays that share a common endpoint and are noncollinear form an **angle**. The rays are the **sides** of the angle, and the common endpoint is called the **vertex** of the angle. Angles are typically named by using the vertex, and a point on each side of the angle, or by using a number.

EX: $\angle A$, $\angle M$, $\angle AMN$, $\angle NMA$ is formed by rays $\overrightarrow{MA}$ and $\overrightarrow{MN}$ (the sides of the angle) and has vertex *M*.



Angles are measured in **degrees**, which are labeled with the symbol $^\circ$. There are 360° in one full rotation around a circle.



Parallel & Perpendicular Lines

Lines, segments, or rays that form a right angle are called **perpendicular** and are represented by the symbol $\perp$.

EX: line *a* $\perp$ line *b*



Parallel lines are coplanar lines that never intersect.

Parallel lines are represented by the symbol $\parallel$.

EX: line *c* $\parallel$ line *d*



COORDINATE GEOMETRY G.GPE.4, G.GPE.5, G.GPE.7

The coordinate plane can be used to demonstrate and verify many geometric properties.

Slopes of Parallel & Perpendicular Lines

The **slope** of a line or segment is the ratio of the vertical rise to the horizontal run. For two points on the line or segment, the slope can be calculated as the change in the *y*-coordinates divided by the change in the *x*-coordinates.

Slope Formula: For the points (x_1, y_1) and (x_2, y_2) , the slope of the line or segment that connects the points is given by $m = \frac{y_2 - y_1}{x_2 - x_1}$.

Parallel lines have the same slope, and perpendicular lines have slopes that are opposite reciprocals.

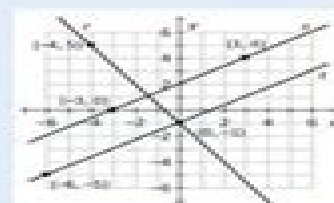
EX: Find the slope of each line and determine the relationships between them.

$$\text{slope of line } r: \frac{-1-5}{0-(-4)} = \frac{-6}{-4} = \frac{3}{2}$$

$$\text{slope of line } s: \frac{4-0}{3-(-3)} = \frac{4}{6} = \frac{2}{3}$$

$$\text{slope of line } t: \frac{-1-(-5)}{0-(-6)} = \frac{4}{6} = \frac{2}{3}$$

Lines *s* and *t* have the same slope, so they are parallel. The slope of line *r* is the opposite reciprocal of the slope of lines *s* and *t*. So, line *r* is perpendicular to both line *s* and line *t*.



Distance Formula

Length can be calculated on the coordinate plane using the **Distance Formula**. The distance between two points on the coordinate plane is given by the formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

EX: Find the length of $\overline{RS}$ with endpoints $R(3, -5)$ and $S(-2, 6)$.

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \quad \text{Distance Formula}$$

$$d = \sqrt{(-2-3)^2 + (6-(-5))^2} \quad \text{Substitute the coordinates of the endpoints.}$$

$$d = \sqrt{145} \quad \text{Simplify.}$$

The length of $\overline{RS}$ is $\sqrt{145} \approx 12.1$ units.

Figures on the Coordinate Plane

Geometric figures can be represented on the coordinate plane, and you can use slopes and the Distance Formula to analyze them.

EX: Quadrilateral $ABCD$ has vertices located at $A(-6, 2)$, $B(4, 4)$, $C(5, -1)$, and $D(-5, -3)$. Determine the type of quadrilateral and find the area.

1. Plot the figure on a coordinate plane.

Then find the slopes of the sides.

$$\text{slope of } \overline{AB}: \frac{1}{5}$$

$$\text{slope of } \overline{BC}: -5$$

$$\text{slope of } \overline{CD}: \frac{1}{5}$$

$$\text{slope of } \overline{AD}: -5$$

2. Find the lengths of the sides.

$$\overline{AB} = \sqrt{104} = 2\sqrt{26}$$

$$\overline{BC} = \sqrt{26}$$

$$\overline{CD} = \sqrt{104} = 2\sqrt{26}$$

$$\overline{AD} = \sqrt{26}$$

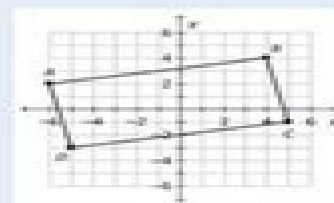
3. Classify the quadrilateral.

$ABCD$ has sides that are perpendicular, so they form 90° angles.

The opposite sides of $ABCD$ are congruent. The quadrilateral is a rectangle.

4. Find the area of $ABCD$.

$$\text{area} = 2\sqrt{26}(\sqrt{26}) = 2(26) = 52 \text{ square units}$$



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Annelies Wilder-Smith



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web objective to apply stoichiometric principles to calculate the appropriate chemical equation for the reaction between iron metal and a solution of copper i sulfate introduction in the form of finely split powder copper metal is produced as a byproduct of the process as iron ions the iron metal dissolves

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web purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction finally the theoretical and percent yield of this reaction will be calculated

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web october 3 2017 abstract the techniques used in this lab are quantitative transfer and vacuum filtration with the reaction of 8 001 grams of copper ii sulfate CuSO_4 and 2 0153 grams of iron powder Fe the goal of this experiment was to determine the product of copper ii sulfate with iron

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper's mass into account add these to the beaker 3 measure 50 0 ml of water in the

cylinder and add it to the beaker 4

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web stoichiometry lab the reaction of iron with copper ii sulfate the study of stoichiometry deals with the calculation of quantities in a chemical reaction how much product will be produced how much reactant do you need to make that much product

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web description great lab for use during stoichiometry unit in chemistry reinforces ideas of mole ratios and stoichiometry calculations by measuring the mass of iron that reacts and the mass of copper metal produced students can calculate the ratio of moles of reactant to moles of product this experimental mole ratio from lab can be compared

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web in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces metallic copper which is seen precipitating as a finely divided red powder

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web in this lab we will use experimental evidence and the principles of stoichiometry to determine which ion is formed in a single replacement reaction between iron and copper ii sulfate pre lab assignment in preparation for the lab activity we will investigate another single replacement reaction between copper and silver nitrate

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web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web under the finalize of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated CuSO_4 solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

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