

Wednesday, 8/20/14

1. Take out vocab prep

2. Complete Warm up

3. Notes: Section 1.1

HW: See board

Warm - Up

Solve the following equations

1. $7 - 2x = -5$
2. $2/3x - 2 = 4$
3. $7 = 2 + 5(z - 2)$
4. $15(s - 3) = 12s - 43$

Aug 19-10:09 AM

Section 1.1: Points, Lines, and Planes

Content Standards

G.CO.1 Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.

Objectives

- Identify and model points, lines, and planes.
- Identify intersecting lines and planes.

Aug 17-9:18 PM

Term:	description	named by	notation (symbols)	sketch an example
point	a location has neither shape nor size	a capital letter	point A	
line	made up of points and has no thickness or width exactly one line through any two points	the letters representing two points on the line or a lowercase script letter	\overleftrightarrow{AB} ℓ	
plane	a flat surface made up of points that extends infinitely in all directions exactly one plane through 3 points not on the same line	a capital script letter or the letters representing 3 points not on the same line	plane ABC \mathcal{N}	

Aug 17-9:26 PM

Term:	description	named by	notation (symbols)	sketch an example
Line segment	part of a line w/ 2 endpoints	2 endpoints	\overline{AB}	
Ray	a part of a line w/ one endpoint & extends indefinitely in the other direction.	the endpoint and another point it goes through	\overrightarrow{AB} \overrightarrow{BA}	

Aug 17-10:03 PM

Collinear points: points on the same line
 Examples: C, D, A, E

Non-collinear points: points not in the same line
 Examples: C, A, D, B

Coplanar: in the same plane
 Examples: C, D, B

*** Non-coplanar:** not in the same plane
 Examples: A, C, B

Aug 17-9:27 PM

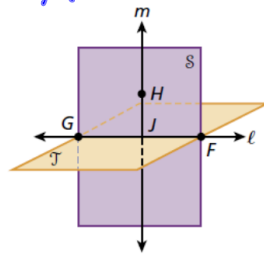
CHECK FOR UNDERSTANDING...

- The intersection of two lines is a point.
- Any two points determine a line.
- The intersection of two planes is a line.
- Three non-collinear points determine a plane.

Aug 17-9:50 PM

Use notation (symbols) to answer the following:

- Give three names for the line containing point H . $\overleftrightarrow{HG}, \overleftrightarrow{HJ}, m$
 Is \overleftrightarrow{Hm} an acceptable name for this line? **No** Explain. *see definition*
- Name three coplanar points. G, H, F Name the plane that they lie on. S
- Name the intersection of plane S and plane T . $\overleftrightarrow{GF}, l$



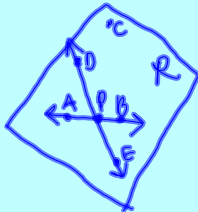
Aug 17-10:01 PM

Name the geometric term that represents the following...

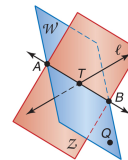
- A city on a map **point**
- The ceiling of the classroom **plane**
- College Boulevard between Woodland and K-7 Highway **line segment**

Aug 17-9:52 PM

A. ALGEBRA Draw and label a figure for the following situation. Plane R contains lines AB and DE , which intersect at point P . Add point C on plane R so that it is not collinear with \overleftrightarrow{AB} or \overleftrightarrow{DE} .



Aug 17-9:57 PM



- Name three collinear points.
 A, T, B
- What is another name for \overleftrightarrow{AB} ?
 \overleftrightarrow{AT}
- Name a line in plane Z .
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Aug 19-10:08 AM

Section 1.2: Linear Measure

Content Standards

- G.CO.1 Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.
- G.CO.12 Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).

Objectives

- Measure segments.
- Calculate with measures.

New Vocabulary

- line segment
- betweenness of points
- between
- congruent segments
- construction

Aug 17-9:18 PM