

Mathematics Class Slides

Bronx Early College Academy

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5-21 September 2018

1.1 Drui

1.2 Drui

1.3 Drui

1.4 Drui

1.5 Drui

1.6 Drui

1.7 Drui

1.8 Drui Tuesday Sept 18

1.9 Drui Thursday Sept 20

1.10 Drui Friday Sept 21

GQ: How do we define the basic elements of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.1

Welcome back to school

Do Now Handout: Algebra skills check

1. Assigned seating: **Without saying a word (!)**, arrange yourself alphabetically by last name, left to right, front to back.
2. Take out notebooks (or blank paper) & calculator
3. Complete signin sheet *in order by last name*

Lesson: Definitions: point, line, plane, ray, segment, end point, colinear, coplanar, congruent, distance or length, angle, vertex

Segment addition postulate (classwork handout)

Early finishers: How should the papers be handed in to be in order?

Homework: Problem set 1-1 Vocabulary and terminology

GQ: How do we construct geometric figures?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions

1.2

Do Now: Problems 75-80 pg 19

Homework review

Riddle on page 3

Lesson: Opposite rays, intersection, p. 13-15

Project: Introduction to compass use

Calculator deposits \$20

Homework: Algebra skills assessment

GQ: How do we construct an equilateral triangle?

CCSS: HSG.CO.D.13 Construct an equilateral triangle 1.3

Do Now Quiz

1. Notation and terminology

Lesson: Circle notation; “Sketch”, “draw”, “construct”; “Given”

Euclid's first construction

1. Steps in the construction
2. Logic: Why does it work?
3. Assessment criteria: precision, correct & complete, elegance or beauty

Homework: Geometry and algebra practice

Due: notebook, folder, compass, ruler, protractor, calculator

GQ: How do we work in three dimensions?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.4

Do Now: I have a compass, notebook, and calculator

1. Tools checklist
2. Notation
3. Segment addition, absolute value
4. Equilateral triangle construction

What is the actual measured length of DE ? (in centimeters)

Plane geometry pp. 14-17

Problems #1-20 p.16

Homework: Pre-quiz geometry and algebra practice

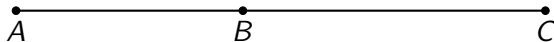
Construction project due Friday (hexagon challenge)

A step-by-step guide to solving geometry problems

Segment addition postulate

1.4

Given \overline{ABC} , $AB = 3x - 7$, $BC = x + 5$, $AC = 14$. Find AB .

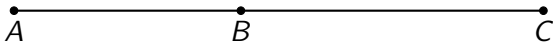


A step-by-step guide to solving geometry problems

Segment addition postulate

1.4

Given \overline{ABC} , $AB = 3x - 7$, $BC = x + 5$, $AC = 14$. Find AB .



1. Sketch and label the situation
2. Write a geometric equation
3. Substitute algebraic values
4. Solve for the unknown
5. Answer the question
6. Check your answer

GQ: How do we measure distance?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions

1.5

Do Now: I have a ruler and protractor

1. Plane geometry
2. Measure lengths

Midpoint, bisector, step-by-step solving distance algebra
Problems pp. 20-24, #1-5, 8-20

Homework: Distance algebra problems, challenge p. 26
Construction project due tomorrow (hexagon challenge)

GQ: How do we measure angles?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.6

Do Now quiz - Project due

1. Notation
2. Segment addition, absolute value
3. Equilateral triangle construction

Angle terminology, types; protractor use pp. 27-29

Problems #1-20 (odds) p.31

Homework: Angle notation

GQ: How do we add angle measures?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.7

Do Now: Practice and review

1. Segment addition problem
2. Equilateral triangle construction
3. Segment replication

Review common errors of Friday's Do Now Quiz

Angle addition postulate pp. 30-32

Classwork problems 7-23 odds pp. 31-32

Homework: Angle measure algebra problems

Parent-teacher meeting tomorrow 4:30-7:30 Participation credit!

GQ: How do we solve bisector problems?

CCSS: HSG.GPE.B.6 Find the midpoint of a segment

1.8

Do Now: Practice, construction

1. Use your protractor and ruler to measure and draw.
2. Use your compass and straightedge to construct an equilateral triangle.

Congruence situations versus addition situations
Angle bisectors

Homework: Pre-test

Parent-teacher meeting tomorrow 4:30-7:30 Participation credit!

GQ: How do we use the tools of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.9

Do Now: Angle measure practice, construction

1. Use your protractor, ruler, and compass

Test review

Homework: Study for test

GQ: How do we use the tools of geometry?

CCSS: HSG.CO.A.1 Know precise geometric definitions

1.10

Do Now: (Test)

Test

Homework: Angle measure algebra problems