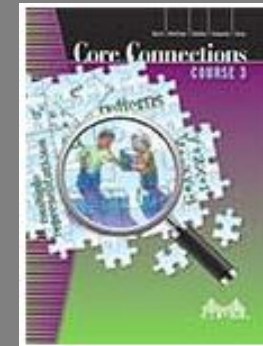
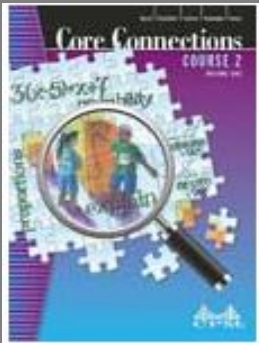


College Preparatory Math (CPM)
Core Connections 2
7th Grade Math



Tim Ahrens
652-2635 (x535)
tahrens@loomisk8.org

College Preparatory Math (CPM) Core Connections 2

25 years teaching experience

- 6 years of 5th grade
(San Rafael)
- 19 years of 7/8 math
(San Rafael and Loomis)

The Big Idea:

Proportional Reasoning

Unit Rate

Common Formulas: $d=rt$, $I=prt$, $y=kx$,

*Percent: markups, discounts, tax, tips,
commissions, percent increase and decrease*

Scale Drawings and Models/Scale Factor

College Preparatory Math (CPM) Core Connections 2

CPM philosophy:

- More emphasis on collaborative problem-solving and teamwork

Problem Solving with the 5D Process

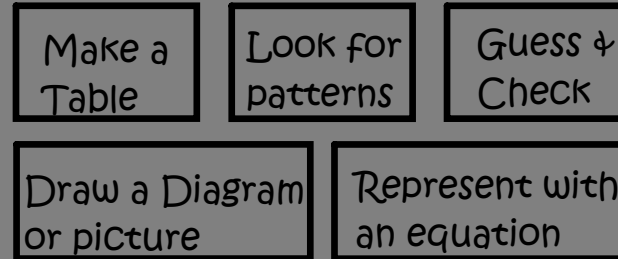
Describe:

- What information is important?
- What is the question asking?



Define:

- What are the variables of the problem?
- What approach can you take?



Do:

- Solve using your method of choice.



Decide:

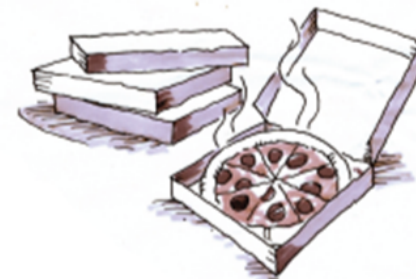
- Having trouble? Try another approach.
- Does your answer make sense?
- Check to be sure.



Declare:

- State your answer with a complete sentence.

6-97. For the end-of-year party, Mt. Rose Middle School ordered 112 pizzas. There were eight fewer veggie pizzas than there were pepperoni pizzas. There were three times as many combo pizzas as pepperoni pizzas. Use the 5-D Process to define a variable and write an equation for this situation. Then determine how many of each kind of pizza were ordered.



Describe: Veggie: $x - 8$
 Pepperoni: x
 Combos: $3x$
 Total: 112

Question: All 3 pizzas

	Define		Do	Decide
	pepperoni x	veggie $x - 8$	Combos $3x$	$x + x - 8 + 3x = 112$ 112?
Trials	20	20 - 8	3(20)	$20 + 12 + 60 = 92$ low
	22	22 - 8	3(22)	$22 + 14 + 66 = 102$ low
	24	24 - 8	3(24)	$24 + 16 + 72 = 112$ correct

Declare: There were 24 pepperoni, 16 veggie and 72 combos ordered.

$$5x - 8 = 112$$

College Preparatory Math (CPM) Core Connections 2

Expectations:

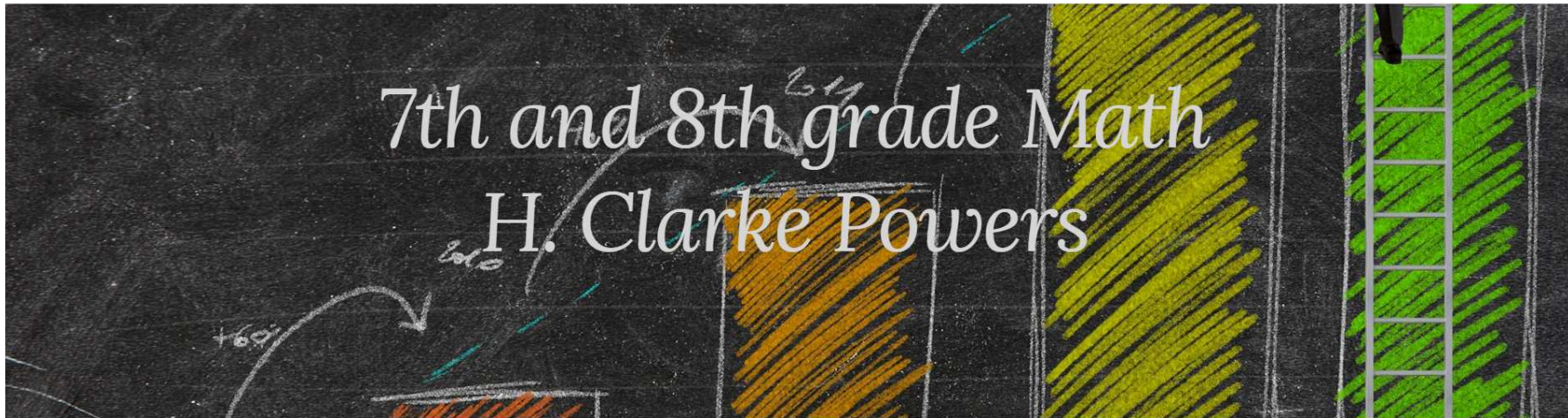
- Students come to class ready and willing to participate.
- Students will complete all assignments to the best of their ability.

College Preparatory Math (CPM)

Core Connections 2

Homework:

- Assigned daily (except Friday)
- Spiral review
(A couple problems focus on that day's less, a few review concepts from earlier in the chapter, and one or two bring back concepts that will be useful in a future lesson.)



Welcome back to another school year! I am very excited to meet our new 7th grade students and reacquaint myself with this year's 8th graders! This will be our second year working with the CPM (*College Preparatory Math*) Program. Although CPM predates the Common Core Standards for Mathematical Practice by about 20 years, very similar practices have always been a core and integral part of CPM curriculum materials.

The CPM Program has provided problem-based instructional materials and professional development for teachers since its inception in 1989. The program's teaching strategies focus on how students best learn and retain mathematics. We believe students should engage in problem-based lessons structured around a core idea, students should interact in groups to foster mathematical discourse, and practice with concepts and procedures should be spaced over time, that is, *mastery comes over time*.

×

Mr. Ahrens' Class

[Home](#) [7th Grade News](#) [8th Grade News](#) [Homework Calendar](#) [CPM Online Textbook](#)
[Enlightened Math Students](#) [EMS Challenge Problem](#) [Air Force Test](#) [Nine Men's Morris](#)
[Intervention - IXL Math](#) [Khan Academy - 7th Grade](#) [Khan Academy - 8th Grade](#)
[Intervention - Study Guides](#) [PUHSD -Accelerated 8th Grade Units](#) [Ms. Pacman Tournament Project](#)
[Meta Chart](#) [Parallel Box Plot Maker](#) [About Me](#)



Welcome back to another school year! I am very excited to meet our new 7th grade students and reacquaint myself with this year's 8th graders! This will be our second year working with the CPM (*College Preparatory Math*) Program. Although CPM predates the Common Core Standards for Mathematical Practice by about 20 years, very similar practices have always been a core and integral part of CPM curriculum materials.

The CPM Program has provided problem-based instructional materials and professional development for teachers since its inception in 1989. The program's teaching strategies focus on how students best learn and retain mathematics. We believe students should engage in problem-based lessons structured around a core idea, students should interact in groups to foster mathematical discourse, and practice with concepts and procedures should be spaced over time, that is, *mastery comes over time*.



Mr. Ahrens' Class

HCP 7th and 8th Homework Calendar

Today March 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	Mar 1	2	3
	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	8th Grade ELA - C 8th Grade ELA - Re	
4	5	6	7	8	9	10
	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)				
11	12	13	14	15	16	17
	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)		
18	19	20	21	22	23	24
	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	7th Grade Math (C) 8th Grade ELA - Re 8th Grade Math (C)	8th Grade ELA - C 8th Grade ELA - Re	
25	26	27	28	29	30	31
	8th Grade ELA - Re	8th Grade ELA - Re			8th Grade ELA - C	

7th Grade Math (CC2) - 7.1.6 (p.408) #70-75/M&Ms: (p.408) "Fraction Busters"

When: Wednesday, Mar 21, 2018

[more details»](#) [copy to my calendar»](#)

Events shown in time zone: Pacific Time - Los Angeles

×

Mr. Ahrens' Class

[Home](#) [7th Grade News](#) [8th Grade News](#) [Homework Calendar](#) [CPM Online Textbook](#)

[Enlightened Math Students](#) [EMS Challenge Problem](#) [Air Force Test](#) [Nine Men's Morris](#)

[Intervention - IXL Math](#) [Khan Academy - 7th Grade](#) [Khan Academy - 8th Grade](#)

[Intervention - Study Guides](#) [PUHSD -Accelerated 8th Grade Units](#) [Ms. Pacman Tournament Project](#)

[Meta Chart](#) [Parallel Box Plot Maker](#) [About Me](#)



Welcome back to another school year! I am very excited to meet our new 7th grade students and reacquaint myself with this year's 8th graders! This will be our second year working with the CPM (*College Preparatory Math*) Program. Although CPM predates the Common Core Standards for Mathematical Practice by about 20 years, very similar practices have always been a core and integral part of CPM curriculum materials.

The CPM Program has provided problem-based instructional materials and professional development for teachers since its inception in 1989. The program's teaching strategies focus on how students best learn and retain mathematics. We believe students should engage in problem-based lessons structured around a core idea, students should interact in groups to foster mathematical discourse, and practice with concepts and procedures should be spaced over time, that is, *mastery comes over time*.



Welcome to CPM

Please Sign In...



Sign in with CPM

Sign in

[Forgot Password?](#)

Need to enroll?

Enroll



Welcome to CPM ebooks!

Please click on the cover to open the ebook.

Notes:

1. Set up your classes and issue books to your students by clicking on the Teacher Tools in the black bar above. For step by step instructions, click on the Help button in the same bar above.
2. Please use an updated version of Firefox, Safari, or Chrome browsers when using a computer.
3. All Lessons, videos, mathcasts, and homework help are viewable on an iPad.



Core Connections 2



Core Connections 3





CC Course 2
Home Logout

- Introduction
- Chapter 1
 - 1 Opening
 - 1.1.1**
 - 1.1.2
 - 1.1.3
 - 1.1.4
 - 1.1.5
 - 1.2.1
 - 1.2.2
 - 1.2.3
 - 1.2.4
 - 1.2.5
 - 1.2.6
 - 1.2.7
 - 1.2.8
 - 1 Closure
- Chapter 2
- Chapter 3



1-3. **Mathography:** A mathography is a lot like your life history, except that it is focused on mathematics in your life. [Homework Help](#)



- a. Write a letter about yourself to your teacher. The letter will help your teacher get to know you as an individual. The letter should talk about these three general topics: you, you as a student, and you as a math student.

Remember to use complete sentences and make sure that it is neat enough for your teacher to read it easily. Start the letter with "Dear..." Make sure you sign your letter. This assignment should take 15 to 20 minutes to complete. Parts (b), (c), and (d) below have suggestions for what to write about each of the three topics.

- b. **You:** Introduce yourself using the name you like to be called. Describe your hobbies, talents, and interests. State your goals or dreams. What are you proud of? What else would you like to share?
- c. **You as a Student:** State the importance of school in your life. Describe yourself as a student. What kinds of classroom activities do you excel at most? What kinds of activities do you find frustrating? Explain which subjects are your favorites. Tell why you like them. How often do you finish in-class assignments? How faithfully do you do your homework?
- d. **You as a Math Student:** Describe your most memorable moment in math and explain why you remember it. State your favorite math topic and name your least favorite. Explain how you feel about math this year.

1-4. Decide what the shapes below have in common. Write your answer in a complete sentence. Then draw two more shapes that belong to the same set. [Homework Help](#)



1-5. According to the diagrams below, how long is each unknown piece? [Homework Help](#)

Translate

Dictionary

Tools ▲

CPM Assessment

Report A Bug

CPM eBook Guide





CC Course 2
Home Logout

Introduction

Chapter 1

1 Opening

1.1.1

1.1.2

1.1.3

1.1.4

1.1.5

1.2.1

1.2.2

1.2.3

1.2.4

1.2.5

1.2.6

1.2.7

1.2.8

1 Closure

Chapter 2

Chapter 3

Lesson **Answers** Teacher Notes My Notes Sharing



METHODS AND MEANINGS

MATH NOTES

Mean

To understand a set of data, you often need to be able to describe the approximate “center” of that data. One way to do this is to find the **mean** of the data set, which is also called the **arithmetic average**.

To find the mean of a set of data, add the values of the data elements (numbers) and then divide by the number of items of data. The mean is a useful way to describe the data when the set of data does not contain **outliers**. Outliers are numbers that are much smaller or much larger than most of the other data in the set.

Suppose the following data set represents the number of home runs hit by the best seven players on a Major League Baseball team during one season:

16, 26, 21, 9, 13, 15, and 9.

The mean is $\frac{16+26+21+9+13+15+9}{7} = \frac{109}{7} \approx 15.57$.

This number shows that a typical player among the best seven home-run hitters on the team hits about 15 or 16 home runs each season.

Translate

Dictionary

Tools ▲

CPM Assessment

Report A Bug

CPM eBook Guide



3:29 PM
8/16/2015

College Preparatory Math (CPM) Core Connections 2

Formative Assessments:

- Periodically given at end of class (2 or 3 times per week).
- Assesses students understanding of the concept learned/reviewed

College Preparatory Math (CPM) Core Connections 2

Tests:

- Cover concepts aligned to
Common Core Standards
- Worth 100 Points

Score	Description of Student Work
4	Has a correct solution. Understands the concept. Followed directions. Showed all necessary steps.
3	Has an incorrect solution and/or a minor error. Understands the concept. Followed most of the directions. Showed most of the required work.
2	Has an incorrect solution and/or a major error. Somewhat understands the concept. Didn't follow directions. Minimal work is shown.
1	Has an incorrect solution and/or a major error. Does not understand the concept. Made an attempt to solve the problem, but did not complete the work.
0	Did not attempt to solve the problem. No solution is shown. Blank paper. No work is shown.

College Preparatory Math (CPM) Core Connections 2

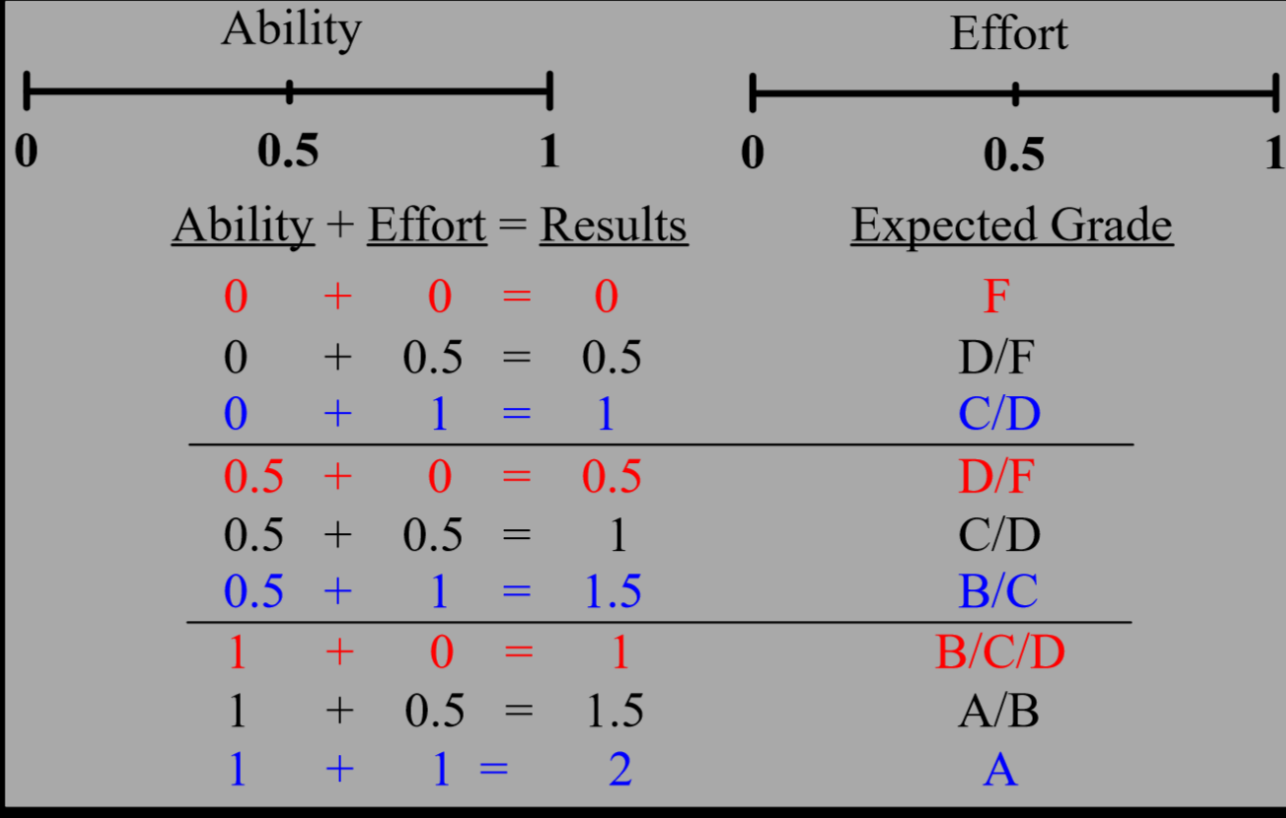
Grading:

- Chapter Tests and Weekly Assessments account for 100% of the grade.
- Homework and Checks for Understanding do not affect the grade.

College Preparatory Math (CPM) Core Connections 2

Extra Credit:

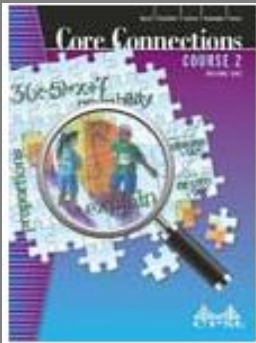
- No Extra Credit is available in math
- Any test can be retaken (must be corrected and retaken before the following test).



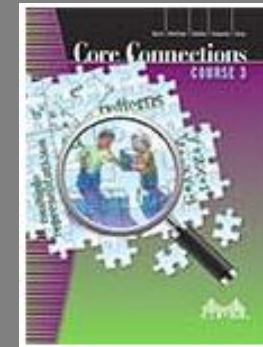
College Preparatory Math (CPM) Core Connections 2

* Any student that regularly completes homework and retakes assessments when necessary (<70%) will earn a passing grade in math.

College Preparatory Math (CPM)
Core Connections 2
7th Grade Math



Tim Ahrens
652-2635 (x535)
tahrens@loomisk8.org



Attachments

CC2 image.JPG

CC3 image.JPG

Homework Completion Grade Breakdown 2015_2016.xlsx

Masters Research Homework Completion_Grade Report_7th.xls



Mr. Ahrens Class Website