

Final Exam Study Guide/Plan 2018:

Your Final exam is coming up Monday, June 11 (A) or Tuesday, June 12 (B).

My form of a study guide is designed to help you figure out what topics are important and to study and prepare for the test by focusing on the work you have done, the skills you have been building and the skills you still need to work on. I do not give a study guide that looks similar to your test. If you have been doing your classwork, setting up your notes, watching the videos and completing your homework like I have been coaching you to complete it (all problems/original question written, all work shown), summarizing etc. your best study guide is your own notebook.

Here is what you should have done, or should do to prepare:

- Complete all homework.
- Review your classwork that has been done and make sure you summarized your learning.
- Review your homework that's been done and make a list of questions/problems you still don't understand. Ask myself or a peer for help, or google the topic on your own and watch some videos or read up on one of the myriad magical math websites out there for help. Try similar problems for additional practice.
- Complete Chapter 1, 2, and 3, 4, 8 and 9 Closure Problems or review the ones you have done. I will not check it (you should, answers are included in the table in the chapter) but it will benefit you GREATLY to do them. When you check them, if you get a problem wrong, there is extra help and practice listed in the answer table. Go and try those problems or use the help that is listed.
- Practice problems from Checkpoints 1-7, 10B and 11.
- Watch every required video that you have not yet watched. Go back and refresh on any topics you don't feel confident in by watching the video again/taking notes. Watch other videos and take notes as needed!
- Work with a peer to study or get help!
- Create a Study Guide. It may be two sheets (each page may be front and back--4 surfaces total) that have a maximum size of 8.5" x 11", front and back with NO oragami or fold outs!

Topics that may be on your Final Exam:

CHAPTER 1

- Function notation
- What makes a function a function: DEFINITION: A relation is a function when each input has ONE and ONLY ONE output (one x has one y value).
- Domain and Range
- solving multi-step equations (checkpoint 1)

CHAPTER 2

- Graphing Linear Equations
- using $y=mx+b$
- Finding the equation of a line given 2 points. You must be able to correctly find slope and find the y-intercept. You should be able to do this algebraically.
- Find the slope, y-intercept and equation of a line from a graph, table, situation or equation and represent linear situations in all of these forms
- Order of Operations/Rational Expressions (Checkpoint 2)

CHAPTER 3

- Solving absolute value equations (SEE EXAMPLES IN YOUR BOOK, your notes or look online--there are two answers--you do not change the expression but the constant you are solving for to positive version and negative version)
- Solving equations with distributive property
- simplifying exponents (a negative exponent does not make a negative value! A negative exponent means how many times you divide 1 by that number--the reciprocal!)
- scientific notation

CHAPTER 4

- Solving a system with graphing
- Solving a system with substitution
- Solving a system with elimination
- What is the solution for parallel lines? Coinciding lines? Intersecting lines?

CHAPTER 9

- Solving and graphing a single variable inequality
- Solving and graphing two variable inequality
- Graphing a system of inequalities to find the solution
- Using the Quadratic Formula ***NEW IN THIS LATEST UNIT!***

CHAPTER 8

- Finding the sum given the product, and the product given the sum
- Factoring a quadratic expression (you can use a box and diamond)
- Factoring special cases (perfect square trinomials, difference of squares, quadratics not in standard form)
- Solve a quadratic equation by factoring and using Zero Product Property to find the roots/x-intercepts
- find roots (x-intercepts) from equation or graph or table
- find y-intercept from equation
- Graph an equation in standard form
- find equation given roots/x-intercept and y-intercept (Bonus)
- Match an equation, situation, graph and table for a quadratic equation

GOOD LUCK!