**BELLWORK**

**Bellwork for Week Ending 8/9/19**

**Monday 8/5/19**

**Essential Question : W**ill I start to remember how to Math?

**BW:**  What are your goals for this class this year?

**TUESDAY 8/6/19**

**EQ:**  How do I solve the problems on the given assignment?

**BW:**  Using yesterday’s notes, write down the Associative and Commutative Property of both Addition and Multiplication. Then write out an example to show how the property works.

**WEDNESDAY 8/7/19**

**EQ:**  Can I remember how to Simplify expressions and Solve equations?

**BW:**  To the best of your ability, describe the difference between simplifying, solving, and evaluating.

**THURSDAY 8/8/19**

**EQ:**  How on earth do you “solve” literal equations?

**BW:**  Solve for r:

1. Gl=rxy
2. $\frac{rx}{ql}=y$

**FRIDAY 8/9/19**

**EQ:**  How well do I remember inequalities?????

**BW:**  Ask Mr. Renard a question.

**BELLWORK FOR WEEK ENDING 8/16/19**

**MONDAY 8/12/19**

**EQ:** What happens when you multiply or divide an inequality by a negative number?

**BW:** How was your first week of school? Did you keep all the promises you made to yourself at the beginning of the year?

**TUESDAY 8/13/19**

**EQ:**  What’s the deal with absolute values? More importantly, how do use the properties of absolute values to solve both equalities and inequalities?

**BW:**  Attempt to solve the following:

1. $\left|x\right|+4=7$
2. $\left|x+4\right|=7$
3. $|x+4|\geq 7$

**WEDNESDAY 8/14/19**

**EQ:**  How much of the review can I complete in class today?

**BW:**  Attain a copy of the Chapter 1 Review from the back table. Quickly look over it and write down what you are most comfortable with, and what you need the most help with. Then write out a plan on how you are going to get ready for the test. Then get to work!

**BELLWORK FOR WEEK ENDING 8/23/19**

**MONDAY 8/19/19**

**EQ:**  How do I tell whether a relationship between two variables qualifies as a “function”?

**BW:** Five Minute Quick Write

Write down everything you know about functions. Also write down any questions you may have about functions.

**TUESDAY 8/20/19**

**EQ:**  Will I be able to create a function rule out of a given set of information?

**BW:**  Review your notes from yesterday and write a summary of your notes. Write this summary in your notes and then write it down for your bellwork.

**WEDNESDAY 8/21/19**

**EQ:**  Will I be able to correctly answer all of the questions on the 2-1 worksheet?

**BW:**  Write a function rule for the following situation.

Ice skating costs $2.50/hr. and skate rentals cost $4.00.

Total cost is a function of the hours skated.

Once you have the rule down, evaluate it for 5 hours.

**THURSDAY 8/22/19**

**EQ:**  How can I use direct variation to solve a problem like : If x varies directly with y, and y=15 when x=2, what is the constant of variation and what does y equal when x=5?

**BW:**  Quick Write: Write down everything you know about direct variation. Include any questions you may have.

**FRIDAY 8/23/19**

**EQ:** How much of the worksheet can I get done in class today?

**BW:**  X varies directly with y and y=6 when x=18. Write out the direct variation function and then solve for y if x=22.

**BELLWORK FOR WEEK ENDING IN 8/30/19**

**MONDAY 8/26/19**

**EQ:**  How can I express the line that goes through the points (6,4) and (5,0) as a function rule?

**BW:** Explain how you would go about finding the equation of a line given two points on that line. Would it matter if you were using slope-intercept or point-slope form? If so, how so? If not, why not?

**TUESDAY 8/27/19**

**EQ:**  How much of the assignment can I finish in class so I have less homework?

**BW:**  Write the equation of the line going through the points (7,2) and (9,5) in point slope form as well as slope intercept and standard form.

**WEDNESDAY 8/28/19**

**EQ:** Same as yesterday

**BW:**  Using what you learned yesterday, write the equation for the line going through the points (-3,6) and (4,-1) in point slope form, slope intercept form, and standard form.

 **THURSDAY 8/29/19**

**NO BELLWORK, JUST GET GOING ON FINISHING THE WORKSHEET**

**BELLWORK FOR WEEK ENDING 9/6/19**

**EQ:**  What is a “function family”?

**BW:**  Sketch a graph of $y=x^{2 }. $ If possible, now describe what the difference would be of y=$x^{2}$ +4 and y$=(x+4)^{2}$.

**FRIDAY 9/6/19**

**EQ:**  Same as yesterday.

**BW:**  Ask Mr. Renard a question?

**BELLWORK FOR WEEK ENDING 9/13/19**

**MONDAY 9/9/19**

**EQ:**  If I know what the graph of y=$x^{2} $ looks like, can I use my knowledge of function families to graph y= $(x-4)^{2}+4$?

**BW:** Last week, on Thursday, I gave you time at the end of class to summarize your notes on function families. Write that summary here for your bellwork. Then get notes.

**BELLWORK FOR WEEK ENDING 9/20/19**

**MONDAY 9/16/19**

**EQ:**  How do I graph systems of inequalities and absolute values?

**BW:**  Graph f(x)=-.5|x-2|+4.

**TUESDAY 9/17/19**

**EQ:**  Can I finish the 2.7/2.8 worksheet and begin working on the Chapter review?

**BW:**  Graph the following inequality:

 $f\left(x\right)\leq -\left|x-4\right|-3$

**WEDNESDAY 9/18/19**

**EQ:**  What will I do to get ready for the upcoming Chapter 2 Test?

**BW:** What are your plans for getting ready for the Chapter 2 Test. Create a plan for studying and review. Assume that the test will be next Monday.

**BELLWORK FOR WEEK ENDING 9/27/19**

**WEDNESDAY 9/25/19**

**EQ:**  How do you solve systems of equations by graphing them?

**BW:** QUICK WRITE: Write down everything you know about solving systems of equations? What does it mean, how do you do it? What do the answers signify?, etc…..

Then write down any questions you have. This will be done for 7 minutes and be done in complete silence. Thank you.

**THURSDAY 9/26/19**

**EQ:**  How do you solve systems of equations?

 **BW:** How do you think you did on the test? Was it fair? What more could you have done to prepare? What more could M. Renard have done to prepare you for it?

**FRIDAY 9/27/19**

**EQ:**  Are there other ways, beside graphing, to solve systems of equations?

**BELLWORK:**  Write the two equations you would need to graph to solve the following problem.

Your school sells tickets for its winter concert. Student tickets are $5 and adult tickets are $10. If your school sells 85 tickets and makes $600, how many of each ticket did they sell?

Now graph and answer the problem.

**BELLWORK FOR WEEK ENDING 10/4/19**

**TUESDAY 10/1/19**

**EQ:**  Can I solve systems of equations?

**BW:**  Yesterday I allowed you work on the worksheet throughout the class. Some of you worked, many not. In grading the test, I am seeing a lack of understanding as to what the questions are, let alone how to solve them. IF you are going to use the time I give you in class to goof around, why should I give you time to work in class???

**WEDNESDAY 10/2/19**

**EQ:**  Can I create and solve system of equations from word problems.

**BW:**  Looking at #37 on your worksheet, write out the system of equations which need be solved in order to correctly find the solution.

**THURSDAY 10/3/19**

**EQ:**  Can I understand the test corrections for the Chapter 2 Test?

**BW:**  Why do you think I do test corrections in class, and why is it important for you to write down the work, and not just the answer?

**BELLWORK FOR WEEK ENDING 10/18/19**

**MONDAY 10/14/19**

**EQ:**  How well do I remember how to graph systems of inequalities?

**BW:**  What did you do well this past 1st quarter? What did you do poorly? What changes are you planning to make for this upcoming quarter?

**TUESDAY 10/15/19**

**EQ:** Can I complete the worksheet?

**BW:** Write down the steps you would take for graphing a system of inequalities.

**WEDNESDAY 10/16/19**

**EQ:**  What is linear programming and how do I do it?

**BW:**  Write down the steps you took to solve #18 on the 3-3 worksheet.

**THURSDAY 10/17/19**

**EQ:** Same as yesterday?

**BW:** Same as yesterday.

**FRIDAY 10/18/19**

**EQ:**  How do I use the steps to linear programming to solve problems?

**BW:** Copy the steps on the board into BOTH your notes and your bellwork.

 Also copy down your note summary from yesterday into your bellwork. Your bellwork should have both the steps, and the note summary.

**BELLWORK FOR WEEK ENDING 10/25/19**

**MONDAY 10/21/19**

**EQ:**  Do I understand linear programming when Mr. Renard does it?

 **BW:**  Referencing Friday, write out, in sentences, how we figured out how many of each shirt to make given the limitations we were given.

**TUESDAY 10/22/19**

**EQ:**  Can I solve linear programming problems?

**BW:**  Review your notes from the past two days. Write a summary of your notes, in your notes and then copy that summary into your bellwork.

**WEDNESDAY 10/23/19**

**EQ:**  Same as yesterday.

**BW:** Write down the steps I gave you to solve linear programming problems. Then use them to ….well….solve linear programming problems.

**THURSDAY 10/24/19**

**EQ:**  Same as yesterday.

**BW:**   Maximize for P=7x-5y

Teams chosen from 30 rangers and 16 trainees are planting trees. A team of 2 rangers can plant 500 trees per week. A Training team of 1 ranger and 2 trainees can plant 200 trees per week.

How many of each type of team should be used to maximize the number of trees planted? How many trees are planted?

**BELLWORK FOR WEEK ENDING 11/1/19**

**WEDNESDAY 10/30/19**

**EQ:**  Can I solve the problems on the worksheet?

**BW:**  Solve the following system of equations ( you will need to use substitution). When you are done, come up and get the worksheet.

**2r+5s=-24**

**-5s+t=28**

**2r-3s-3t=30**

**BELLWORK FOR WEEK ENDING 11/8/19**

**MONDAY 11/4/19**

**EQ:**  How do I solve a quadratic equation using square roots or factoring?

**BW:** QUICKWRITE: Take the next 7 minutes to write down everything you remember about quadratic equations and how to solve them? Write down how you felt about them in Algebra 1, what made sense, what didn’t, etc.

**BELLWORK FOR WEEK ENDING 11/18/19**

**M**

**WEDNESDAY 11/6/19**

**EQ:** How do I solve a quadratic equation by completing the square?

**BW:**  Solve the following quadratic equation:

$$3x^{2}-12x+6=0$$

**THURSDAY 11/7/19**

**EQ:**  Can I solve quadratic equations by completing the square?

**BW:**  Write down the steps to follow in solving the a quadratic by completing the square.

**BELLWORK FOR WEEK ENDING 11/15/19**

**TUESDAY 11/12/19**

**EQ:**  How do I use the quadratic formula to solve quadratic equations?

**BW:**  Write down the steps to following in solving a quadratic equation by completing the square.

**BELLWORK FOR WEEK ENDING 11/23/19**

**MONDAY 11/18/19**

**EQ:**  How can I use complex numbers to help solve quadratic equations?

**BW:**  Try to solve the following quadratic equation. If you can, great, if not, write down why you can’t finish….. (hint: you shouldn’t be able to finish)

$$4x^{2}-x+14=0$$

**TUESDAY 11/19/19**

**EQ:**  How can I multiply, divide, add, subtract, and graph complex numbers?

**BW:**  Write out the iterations of $i, i^{2}…………to i^{8}$ and what each one equals, $i, -1,-i, or 1.$

**BELLWORK FOR WEEK ENDING 12/6/19**

**Monday 12/2/19**

**EQ:**  What is the vertex form of a quadratic equation?

**BW:** What are you planning to do to improve your grade between now and December 20?

**TUESDAY 12/3/19**

**EQ:**  How do I use vertex form to graph quadratics?

**BW:**  Write down the summary from your notes yesterday. Also write down the steps for graphing a quadratic that I gave you yesterday.

**WEDNESDAY 12/4/19**

**EQ:**  How do I graph from standard form?

**BW:**  What is the standard form of a quadratic equation. Do you remember how to graph from it… if so, what do you remember?

**FRIDAY 12/6/19**

**EQ:**  How well do I understand graphing a quadratic function?

**BW:**  Write down the steps for graphing a quadratic function in standard form.

**BELLWORK FOR WEEK ENDING 1/10/20**

**MONDAY 1/6/20**

**EQ:**  How do I find the nth root of a number?

**BW:** Quickwrite: Given 7 minutes, write down everything you remember about radicals and any questions you may have about the same.

**TUESDAY 1/7/20
EQ:**  How do I add, subtract, and multiply radicals?

**BW:**  If there is a radical with a negative radicand and an even index, how many real answers will it have? What if the radicand was positive?

**THURSDAY 1/9/20**

**EQ:**  How do I divide radicals?

**BW:** How would you simplify $\frac{6}{(4-2i)}$?

**FRIDAY 1/10/20**

**EQ:**  Can I finish the assigned worksheets?

**BW:**  Simplify the following

1. $ \frac{7\sqrt[3]{12}}{4\sqrt[3]{7}}$
2. $\frac{8}{3-\sqrt{2}}$

**BELLWORK FOR WEEK ENDING 1/17/20**

**MONDAY 1/13/20**

**EQ:**  How can I apply what I know about exponents to solve problems with fractional exponents?

**BW:**  Write a summary of your notes from last week. It should be *at least* two sentences and make sense.

**TUESDAY 1/14/20**

**EQ:**  Can I finish the assigned worksheet?

**BW:** Yesterday, you were given several *rules* for how exponents interact with each other. Copy *all*  of those rules into your bellwork.

**WEDNESDAY 1/15/20**

**EQ:**  How do I solve radical equation?

**BW:** Try to solve the following equation…

 $\sqrt{2x-1}=3$

**THURSDAY 1/16/20**

**EQ:**  Same as yesterday

**BW :**  Explain what you would do to solve the equations below. (Use complete sentences please.)

1. $\sqrt{x}-2=4$
2. $\sqrt[3]{x}-2=4$

**THURDSAY 1/23/20**

**EQ:**  How do I use function operations to solve problems?

**BW:**  Yesterday I asked you to do $\left(f∙g\right)$(x) and $\left(\frac{f}{g}\right)\left(x\right)$ for homework. When f(x)=4x+7 and g(x) =$\sqrt{x}+x.$ Write down how you accomplished these two here in your bellwork.

**FRIDAY 1/24/20**

**EQ :**  I will hopefully gain a better understanding of how to divide functions?

**BW:**  Choose one of the two division problems we worked on in class yesterday. Write down directions for how to solve each problem. (Don’t forget to include how to deal with exclusions to the domain.)

**BELLWORK FOR WEEK ENDING 1/31/20**

**MONDAY 1/27/20**

**EQ: WHY THE HELL DON’T YOU DO HOMEWORK!!!!!!?????????**

**BW: ANSWER THE ESSENTIAL QUESTION!!!!!!!**

**TUESDAY 1/28/20**

**EQ:**  How do I graph radical functions?

**BW:**

**WEDNESDAY 1/29/20**

**EQ:** Same as yesterday.

**BW:** Using a table, attempt to graph the function f(x)=$\sqrt{x}$

**THURSDAY 1/30/20**

**EQ:**  How can I used what we did the last two days to graph cubic roots?

**BW:**  Graph y=$x^{3}$

**BELLWORK FOR WEEK ENDING 2/14/20**

**MONDAY 2/10/20**

**EQ:**  What is a logarithm, and how can it be used to express exponential equations differently?

 **BW:**  Try to solve the following problems.

1. $10^{x}=1$
2. $10^{x}=10$
3. $10^{x}=1000$
4. $10^{x}=143$

**TUESDAY 2/11/20**

**EQ:**  Can I solve problems using exponential growth and decay models?

**BW:**  Explain, after referencing your notes, how exponential functions differ from quadratic or cubic functions.

**BELLWORK FOR WEEK ENDING 2/21/20**

**WEDNESDAY 2/19/20**

**EQ:**  What are logarithms and how do they work?

**BW:**  If you knew that $3^{x}=27$, how would you solve for x? What if $3^{x}=30$?

**THURSDAY 2/20/20**

**EQ:**  Can I practice my logarithmic skills?

**BW:**  What would x be if $4^{x}+6=27$

**FRIDAY 2/21/20**

**EQ:**  Can I graph logarithms?

**BW:**  Graph the following logarithms:

1. Y=log x
2. Y = 2 log x +4
3. Y = log (x-4) -2
4. Y= -log x +2

**BELLWORK FOR WEEK ENDING 2/28/20**

**TUESDAY 2/25/20**

**EQ:**  How can I use the properties of logarithms to solve problems?

**BW:**  Last week, sometime, I gave notes on the “properties of logarithms.” Copy those properties here into your bellwork.

**THURSDAY 2/27/20**

**EQ:**  How can I solve problems with logarithms?

**BW:**  Do your best to try and solve the following two problems:

 **1. **

 **2.** Log(2x+5) =3

**FRIDAY 2/28/20**

**EQ:**  Can I turn in all of my work for the week?

**BW:** Explain how you would solve #50 on the worksheet?

**BELLWORK FOR WEEK ENDING 3/6/20**

**MONDAY 3/2**

**EQ:**  What good is the natural logarithm?

 **BW:**  Based upon what you did last week, write

2 ln 15 **–** ln 75 as a single logarithm.

 Then try to solve $ln⁡(x-3)^{2}=4$