



# INTEGRATED MATH 2

# CLAIRE VERTI



**August 28, 2017**





# I WILL KNOW...

- What depth of knowledge feels like
- How to Notice/Wonder
- How to access Mrs. Verti's homework site
- How to receive notifications via Remind

# IMPORTANT COURSE INFORMATION

1. Where I post homework:

[bit.ly/VertiMath2](https://bit.ly/VertiMath2)

2. To receive my Remind Text notifications,  
send a text to

[81010](https://www.remind.com) with the message “[@h6bfb4](https://www.remind.com)”

3. My email address: [c.verti@bonita.k12.ca.us](mailto:c.verti@bonita.k12.ca.us)

4. <http://cpm.org/int2-parent-guide/>

# DEPTH OF KNOWLEDGE: MORE THAN DOK1

## Page One

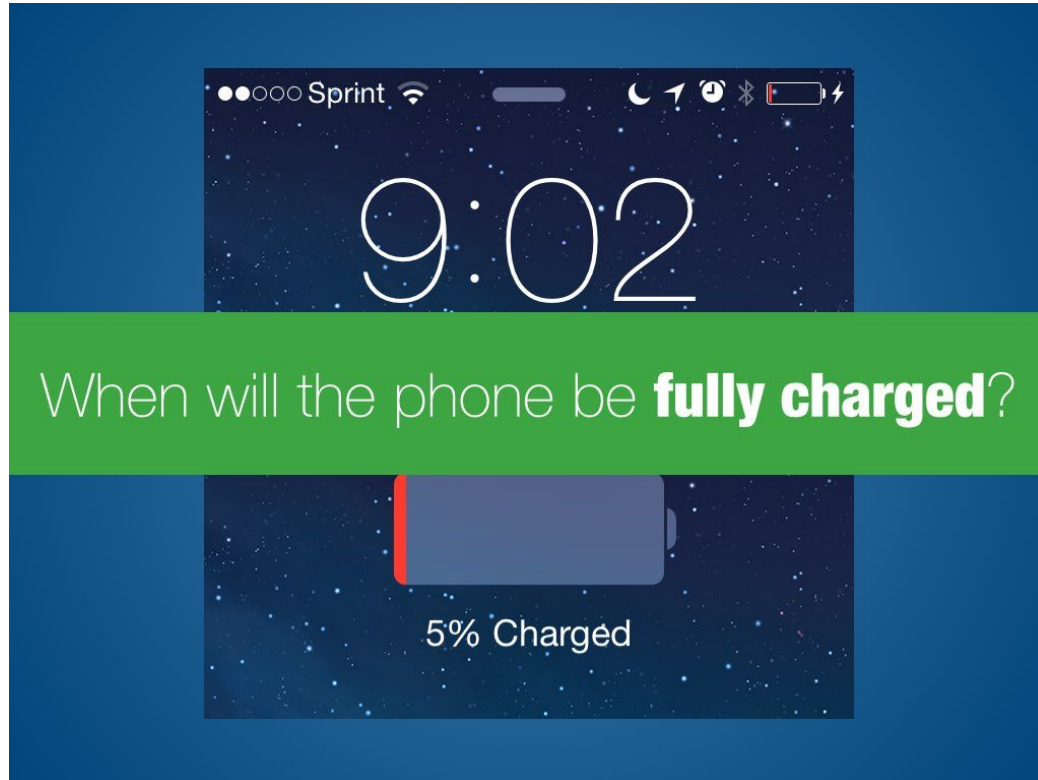
## Depth of Knowledge Matrix - Elementary & Secondary Math

Topic	Adding Whole Numbers	Money	Fractions on a Number Line	Area and Perimeter	Subtracting Mixed Numbers
CCSS Standard(s)	<ul style="list-style-type: none"> <li>1.NBT.4</li> <li>2.NBT.5</li> </ul>	<ul style="list-style-type: none"> <li>2.MD.8</li> </ul>	<ul style="list-style-type: none"> <li>3.NF.2</li> </ul>	<ul style="list-style-type: none"> <li>3.MD.8</li> <li>4.MD.3</li> </ul>	<ul style="list-style-type: none"> <li>5.NF.1</li> </ul>
DOK 1 Example	Find the sum.  $44 + 27 =$	If you have 2 dimes and 3 pennies, how many cents do you have?	Which point is located at $\frac{7}{12}$ below? 	Find the perimeter of a rectangle that measures 4 units by 8 units.	Find the difference.  $5\frac{1}{2} - 4\frac{2}{3} =$
DOK 2 Example	Fill in the boxes below using the whole numbers 1 through 9, no more than one time each, so that you make a true equation.  $\square\square + 53 = \square\square$	Make 47¢ in three different ways with either quarters, dimes, nickels, or pennies.	Label the point where $\frac{3}{4}$ belongs on the number line below. Be as precise as possible.  	List the measurements of three different rectangles that each has a perimeter of 20 units.	Create three different mixed numbers that will make the equation true by using the whole numbers 1 through 9, no more than one time each. You may reuse the same whole numbers for each of the three mixed numbers.  $5\frac{4}{5} - \square\square\square = 3\frac{1}{20}$
DOK 3 Example	Make the largest sum by filling in the boxes below using the whole numbers 1 through 9, no more than one time each.  $\square\square + \square\square =$	Make 47¢ using exactly 6 coins with either quarters, dimes, nickels, or pennies.	Create 5 fractions using the whole numbers 0 through 9, exactly one time each as numerators and denominators, and place them all on a number line.	What is the greatest area you can make with a rectangle that has a perimeter of 24 units?	Make the smallest difference by filling in the boxes below using the whole numbers 1 through 9, no more than one time each.  

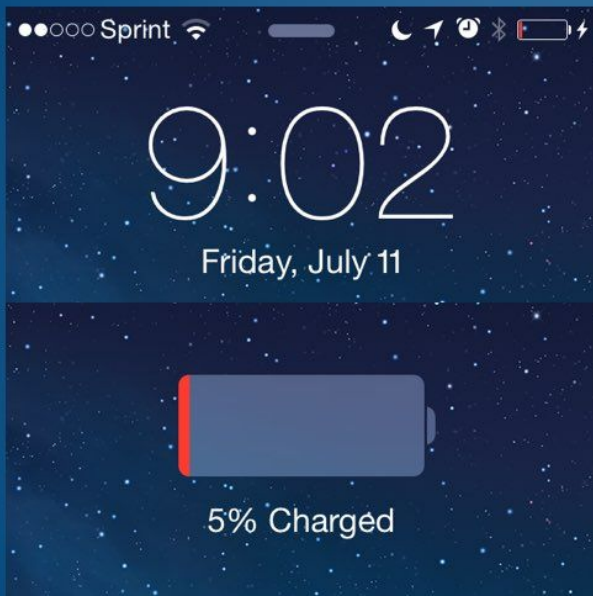
# CHARGE! PROBLEM BASED LEARNING TASK



# THE QUESTION.







# WHAT DO YOU NOTICE? WHAT DO YOU WONDER?

- 1. Make sense of problems and persevere in solving them.**
- 2. Reason abstractly and quantitatively.**
- 3. Construct viable arguments and critique the reasoning of others.**
- 4. Model with mathematics.**
- 5. Use appropriate tools strategically.**
- 6. Attend to precision.**
- 7. Look for and make use of structure.**
- 8. Look for and express regularity in repeated reasoning.**

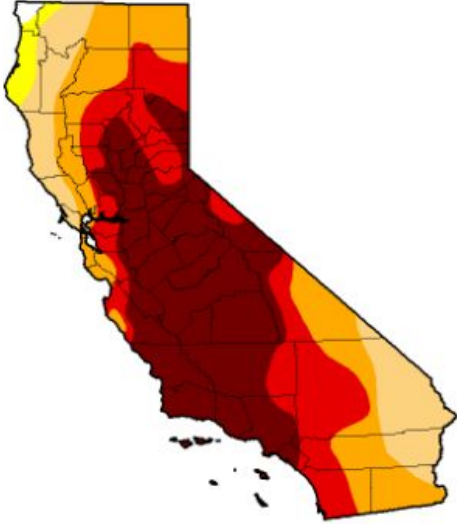


WHAT DO YOU NOTICE?  
WHAT DO YOU WONDER?

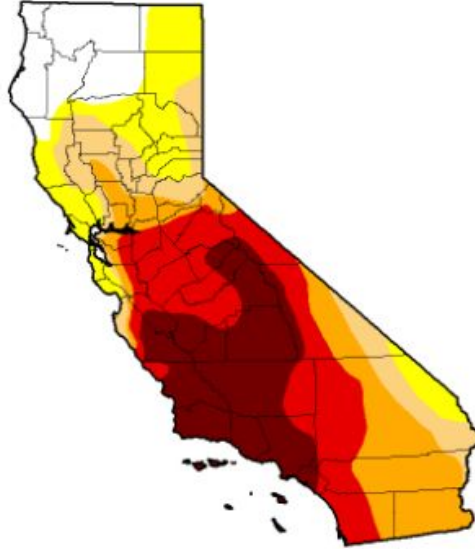


# WHAT DO YOU NOTICE? WHAT DO YOU WONDER?

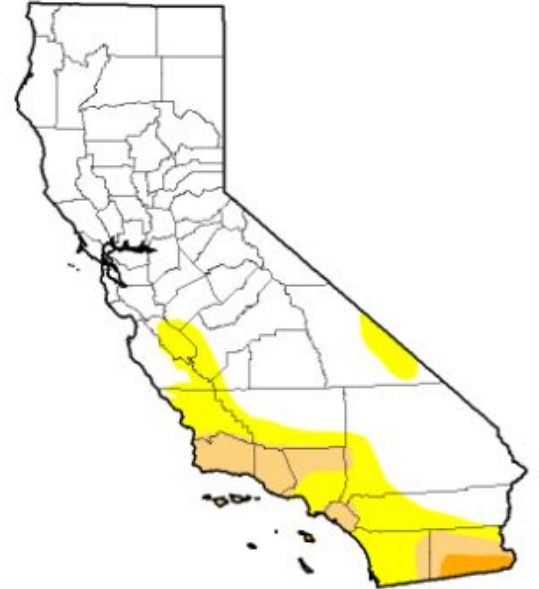
March 8, 2016



December 6, 2016



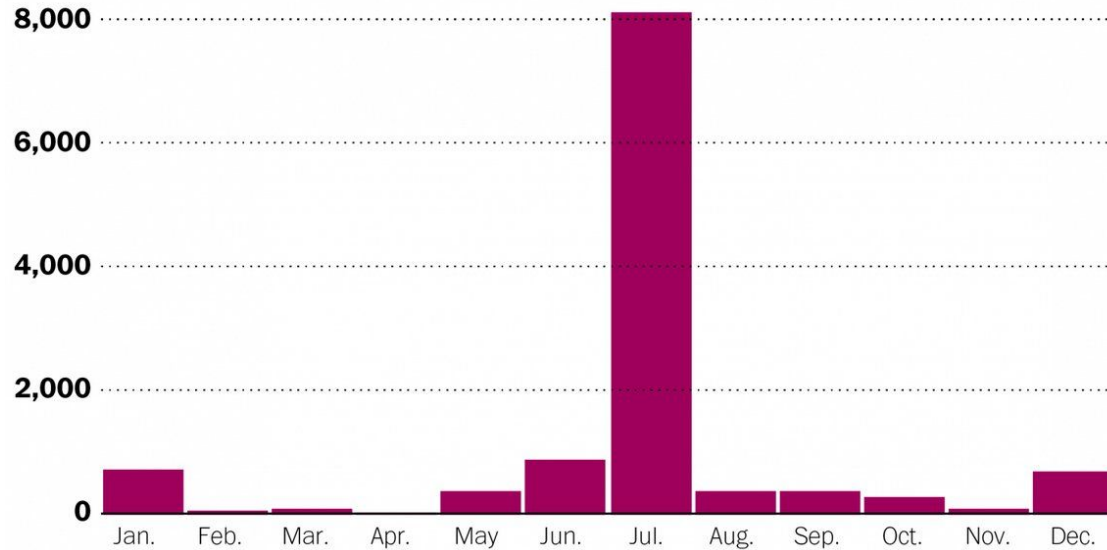
March 7, 2017



# WHAT DO YOU NOTICE? WHAT DO YOU WONDER?

## When people hurt themselves with fireworks

Number of fireworks injuries in 2015, by month





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