THE NUMBER SYSTEM

Menu Choice board

Name: _____

due date: _____

Choose activities from the project menu below that equal $10 or more.
Shade in each box to show which activities you completed.

Standards	Appetizers $1	Entrées $5	Desserts $3
I can apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.	**Game** Design your own game where players have to add, subtract, and multiply rational numbers. After writing step-by-step directions, play your game with a friend and record all of your work on a record sheet.	**Science Journal** Look up the freezing points of 15 liquids. Record the temperature at which each liquid becomes a solid. If glycerol has a freezing point of 17.8 degrees Celsius, calculate how many more degrees the temperature must drop in order for the other liquids to freeze. Graph each problem on a number line. Create a journal to record all of your results.	**Interactive Notebook** Create your own interactive notebook page that explains that when subtracting rational numbers you are adding the additive inverse and that the distance between two rational numbers on the number line is the absolute value of their difference. Your page should include at least one foldable/ interactive element, 5 real-world practice problems, definitions of important vocabulary, and an objective.
I can apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.	**Exit Card** Create 10 fractions and determine which fractions have terminating decimals and which have repeating decimals. What do the denominators of the terminating decimals have in common?	**Lesson Plan** Think about lessons that you learned and enjoyed the most. Design your own math lesson where you teach others how divide rational numbers and interpret the quotients by describing real-world contexts.	**Scavenger Hunt** Create your own multiplication and division of rational numbers scavenger hunt that ultimately reveals a hidden message. Your scavenger hunt must included a minimum of 15 problems and a key!
I can solve real-world and mathematical problems involving the four operations with rational numbers.	**Murder Mystery** Write your own murder mystery where the main character cracks the case by finding and solving clues that requires him to solve problems involving the four operations with rational numbers.	**Fundraiser** The six seventh grade classes held a fundraiser where they sold candy bars. The school's principal award a $1000 prize to be divided between the six classes. If each class sold a different quantity, what would be the most equitable way to divide the money based on their sales? If 8,200 candy bars were sold, simulate how you divide the money between the six classes.	**Jeopardy** Create a jeopardy game where teams have to solve real-world and mathematical problems involving the four operations with rational numbers. As the question value increases so should the difficulty of the problems. Don't forget to include a challenging final jeopardy question!