**My Favorite Number Poster** due Tues., October 16th

For this project, you will choose your favorite number and describe the number in several ways. In a creative and colorful manner, you will display answers to the questions below on a poster. The poster should not be larger than 11 x 17. Be sure to use **correct spelling, capitalization, punctuation and complete sentences**. All work must be shown on poster!

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| **Tasks** | **check** |
| 1. What is your favorite number? (Must be greater than 11)

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| 1. Why did you choose this number? At least two complete sentences.
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| 3. What are three connections you can make between your number and the  real world? (ex.: 27 is the average age for a woman to marry in Brazil ) |  |
| 4. Use 5 of the vocabulary words from this unit in complete sentences  that describe your special number (example: Twenty-seven is a composite number  because it only has more than two factors, 1, 3, 9, 27). This example only counts for  one term. The sentences must prove that you understand the vocabulary term.  |  |
| 5. Write 4 number sentences where your special number would be the correct answer.  Use at least two steps that show your understanding of the **order of operations**.  Be sure to include addition, subtraction, multiplication and division .  (example: 12 +3x5 = 27 ; 34 –45/5 = 27 ; 9 x 3-2x0 = 27; 24 ÷ 2+13 = 27) |  |
| 6. Find the square **of** your number (example: $27^{2}$ = 27 \* 27 = 729). |  |
| 7. Find the prime factorization your number. Write it in expanded and exponential  notation. Be sure to label which is which. |  |
| 8. Starting with your number, list five multiples of your number. |  |
| 9. Find the GCF of your number and 24. Be sure to show your work! |  |
| 10. Find the LCM of your number and 20. Be sure to show your work! |  |
| 11. Be sure to include name, creativity and color. |  |
| 12. Label each section with topic or task number. |  |
| 13. You must grade yourself with the rubric on the back and turn it in with your poster. |  |

Name Hour

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| **Grading Rubric** | Points possible | Points earned |
| 1. What is your favorite number? | 1 |  |
| 2. Why did you choose this number? At least two descriptive complete sentences with correct spelling & punctuation. | 4 |  |
| 3. What are three connections you can make between your number and the real world?-Descriptive complete sentences with correct spelling & punctuation. Clear connection to real world. 1 2 3 | 9 |  |
| 4. Use 5 of the vocabulary words from this unit in complete sentences that describe your special number (example: Seven is a prime number because it only has two factors, one and seven). The sentences prove that the student understands the vocabulary term. 1 2 3 4 5 | 10 |  |
| 5. Write four number sentences where your special number would be the correct answer. Use at least two steps that show your understanding of the order of operations. Be sure to include addition, subtraction, multiplication and division . (example: 12 +3x5 = 27 ; 34 –45/5 = 27 ; 9 x 3-2x0 = 27; 24 ÷ 2+13 = 27) Each operation is used. Math is accurate. | 2 |  |
| 6. Find the square of your number (example: $5^{2}$ = 5 \* 5 = 25). -Work is shown. | 2 |  |
| 7. Find the prime factorization of your number. - Written accurately and labeled in expanded and exponential notation. | 4 |  |
| 8. Starting with your number, list five multiples of your number. | 2 |  |
| 9. Find the GCF of your number and 24. -Work is shown and accurate. | 3 |  |
| 10. Find the LCM of your number and 20. -Work is shown and accurate. | 3 |  |
| 11. Poster includes name, creativity and color. | 3 |  |
| 12. Each section is labeled. | 2 |  |
| 13. Poster is neat and project quality.  | 4 |  |
| 14. Student graded project with rubric. | 1 |  |
| **Total possible** | **50** |  |