Daily 8 Friday Final Date: __ _____ Name:

#2

1. What is the prime factorization of these numbers?

112   220   1044   936

2. Give an example of a prime number and explain why it is a prime
number._____

3. Give an example of a square number and explain why it is a square number.
   _____

4. Make all the arrays that can be made for the number 20. Make sure you label the arrays.

5. 324 is a perfect square. Use prime factorization to prove that it is a perfect square.

6. 4000 is not a perfect square. Use prime factorization to prove that it is NOT a square

7. List all the factors of 16 _____

8. If the prime factorization of a number is 3 x 2 x 7, what is the original number?

9. If the prime factorization of a number is 3^2 x 2^2 x 5, what is the original number?

6. List all the factors of 36. Use your divisibility rules to help you.

7. If the prime factorization of a number is $5^2 \times 3^2 \times 7$, what is the original number?

8. Give an example of two perfect square numbers _____ and _____

9. Use what you know about perfect squares and show how to figure out the approximate square root of $\sqrt{68}$

10. $\sqrt{49} =$ _____ _____ $12^2 =$ _____