

Daily 8 Friday Final # 3 Date: \_\_\_\_\_ Name: \_\_\_\_\_

1. What is the prime factorization of these numbers?

441 =

1026 =

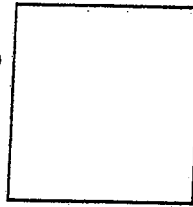
815 =

2. 36 is a perfect square, what is the side length? \_\_\_\_\_

3. Is 676 a perfect square. Use prime factorization to prove your answer.

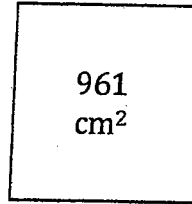
4. What is the area of this square?

35 cm



5. What is the side length of this square?

961  
cm<sup>2</sup>



6. List all the factors of 100. Use your divisibility rules to help you.

\_\_\_\_\_

7. If the prime factorization of a number is  $4^2 \times 3^2 \times 2$ , what is the original number?

8. Use what you know about perfect squares and show how to figure out the approximate square root of  $\sqrt{85}$

9.  $\sqrt{225} =$  \_\_\_\_\_  $5^2 =$  \_\_\_\_\_  $4^3 =$  \_\_\_\_\_

10. Use Pythagoras formula to find the length of c

