Name:	Date:	
Ms. Napolitano	Activity 2.1	

Topic: Prime Factorization

EQ: How do you write the prime factorization of a number?

 $\underline{\mathbf{I} \ \mathbf{can}}$  write the prime factorization of a number.  $\underline{\mathbf{I} \ \mathbf{can}}$  distinguish between a prime and composite number. CCSS: 6.NS.1

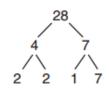
## Homework W7\_Day 1

Use exponents to write the prime factorization of 28.

Step 1 Write 28 as the product of 2 factors.



**Step** 2 Write the factors of each composite factor.



**Step 3** Use exponents to write the prime factorization.

Solution:  $28 = 2^2 \times 7$ 

Write the prime factorization of each number. Use exponents if possible. If the number is prime, write *prime*.

1. 32

**2.** 31

**3.** 49

4. 39

**5.** 40

**6.** 81

Write each expression using exponents.

7.  $6 \times 6 \times 6$ 

- 8.  $5 \times 5 \times 5 \times 5$
- 9.  $9 \times 9 \times 9$

many baskets as Julie.				
Part A				
Write an expression with two terms for the number of baskets that Kari makes. Explain how you found your expression.				
Part B				
Write an expression with three terms for the number of baskets that Kari and Julie make in all. Explain how you found your expression.				
Part C				
If Julie makes 18 baskets, how many baskets does Kari make? How many baskets do they make in all?				
Show your work.				
Kari makes baskets.				
Kari and Julie make baskets in all.				

Kari and Julie are practicing for basketball tryouts. Kari makes 3 less than twice as

ı	liet the	Drime	Factorization	for Each	Number
1	List ine	Prime	racionzation	ior Each	number

1)	66	
2)	51	
3)	49	
4)	116	
5)	58	
6)	88	
7)	32	
8)	95	
9)	12	
10)	46	
11)	98	

\*\*\*If you need to create factor trees to better answer each question, use the back of this page to show your work!!!