Unit 1 Review Packet

Name	
Daka	

- 1. Mr. Martin has 28 tulip bulbs. He wants to plant them in a rectangular array consisting of at least 2 rows with at least 2 tulips in each row. On the grid at the right, draw three possible arrays.
- 2. Is 28 an even or an odd number?
- 3. List all the factors of 28.
- 4. Is 28 a prime or composite number?

How can you tell?

5. Circle the factors in Problem 3 that are prime numbers.

- 6. Write the prime factorization for 28.
- 7. Write the prime factorization for 28 using exponents.
- 8. Fill in the missing numbers.

a.
$$6^2 =$$

b.
$$4^3 =$$

c.
$$= 8^2$$

9. Write thr	ee examples of each of	the following type	es of numbers:		
a. Prime	.				
b. Comp	oosite:				
c. Even:			NAPONIE U PRINCIPALI RECO		
	re:				
10. Name a n	umber between 200 and	d 300 that is divisi	ble by 3 but not by	2.	
11. Name a n	umber between 200 and	d 300 that is divisi	ble by 2, 3, and 5.		
12. List the fa	actors of 16:				
	rst 10 multiples of 6:				
	$\sqrt{100^2} = \underline{}$				
15. Solve.	$\sqrt{987654321^2} = $ _			•	
16. Solve.					
8	7	3	5	4	
<u>x 5</u>	<u>x 4</u>	<u>x 9</u>	<u>x 6</u>	<u>x 8</u>	
2	9	5	3	1	
$\frac{2}{\times 1}$	<u>x 7</u>	<u>x 4</u>	<u>x 8</u>	<u>x 3</u>	
					
0	6	4	9	8	
<u>x 5</u>	<u>x 4</u>	<u>x 9</u>	<u>x 6</u>	<u>x 8</u>	

How are we doing? *

1. Draw 3 possible arrays for. 18.

2. List the factors for the following numbers:

- a. 12 -
- b. 24-
- c. 36-

Identify the following numbers as prime or composite.

4. Fill in the answers:

$$3^2 = 10^2 = 5^2 = 9^2 = 10^2$$

5. Create a number that has 3 digits that is divisible by 3, but not by 2.

15 441 prime or composite? Explain.

(05) <u>(5)</u> Rainbows: 134 all factors of (48) (8) 12/3/4/68/12,24 P



Name:	

Math

DIRECTIONS: USE DIVISIBILITY TO CHECK WHETHER THE FOLLOWING NUMBERS ARE DIVISIBLE BY 2, 3, 5, 6, 9, OR 10.

All even numbers are divisible by 2.

A number is divisible by 10 if it ends in 0.

A number is divisible by 5 if it ends in 0 or 5.

A number is divisible by 3 if the sum of its digits is divisible by 3.

A number is divisible by 9 if the sum of its digits is divisible by 9.

A number is divisible by 6 if it is also divisible by BOTH 2 and 3.

Number	Divisible by:								
	2	3	5	6	9	10			
36									
993									
93,270			····						
1,632,721									

Number Theory

Review 1

1. Draw as many different rectangular arrays as you can using 16 objects.

- 2. a. Name all of the factors of 28.
 - **b.** Name all of the factors of 18.
 - c. Name all of the factors of 17.
- 3. a. Name two numbers that are divisible by 2 and 9.
 - **b.** Name two numbers that are divisible by 3 and 5.
 - c. Name a number that is divisible by 3, 5, and 9.
- 4. a. Circle the square numbers in this list: 7 22 9 36 12 225
 - **b.** How do you know that they are square numbers?

5. Explain why you agree or disagree with the following statement: It is not possible for a number to be a square number and a composite number.