Mr. McDaniel has 36 tomato plants. He wants to plant them in a rectangular array consisting of at least 2 rows with at least 2 tomato plants in each row. On the grid at the right, draw three possible arrays. List all the factors for 36. Then circle the factors that are prime.					•	
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possible arrays.  List all the factors for 36. Then	• •	• •	• •	• • •	•	•
List all the factors for 36. Then	• •	• •	• •	• • •	•	•
	• •	•	•	• • •	•	•
circle the factors that are prime.	: :	: :		• • •		

Is 36 a prime or composite number? \_\_\_\_\_

How can you tell? \_\_\_\_\_

Is 19 a prime or composite number? \_\_\_\_\_

How can you tell? \_\_\_\_\_

grid. Which number would you choose to cover	grid. Which number would you choose to cover next?  WHY?  2 3 3 3 3 3 3 3 4 4 4 4 5 5 5 6 6 6 7 8 8 9 10 10 11 12 14 15 16 18 12 21 22 24	Suppose you are playing Factor Captor with this	0	2	2	0	2	2
would you choose to cover next?       3       4       4       4       5         7       8       8       9       10         10       11       12       14       15         16       18       21       22       24	would you choose to cover next?       3       4       4       4       5         7       8       8       9       10         10       11       12       14       15         16       18       21       22       24	•	2			3	_	
7 8 8 9 10 10 11 12 10 14 15 16 18 10 21 22 24	7 8 8 9 10 10 11 12 10 14 15 16 18 10 21 22 24		3	0	4	4	4	5
WHY?	WHY?		0	5	5	6	6	
16 18 <b>2</b> 21 22 24	16 18 <b>2</b> 21 22 24	HEXT?	7	8	8	0	9	10
16 18 20 21 22 24	16 18 20 21 22 24	WILIVA	10	11	12	0	14	15
25 27 28 32	25 🔊 27 28 🕥 32	WHY?						
			25		27	28		32
			20			20		O.L.
			20			20		<u>GE</u>
								GZ.

Use this calendar and the following clues to figure out the date that Molly's dance recital is being held.									
✓ The date is not an odd number.	S	M	Т	W	Т	F	s		
✓ The date is not a square number.		1	2	3	4	5	6		
✓ The date is not a prime number.	7	8	9	10	11	12	13		
✓ The date is not a multiple of 3.	14	15	16	17	18	19	20		
✓ The date is not a multiple of 5.	21	22	23	24	25	26	27		
✓ The date is a multiple of 11.	28	29	30	31					
On what date is Molly having	her	recita	.1?						

## Write an 8 digit number that has:

- 3 in the ten-thousands place
- 5 in the hundreds place
- 9 in the hundred-thousands place
- 2 in the hundreths place
- 6 in the ones place
- 0 in all the other places

Write this number in words:

Write a 9 digit number that has:

- 2 in the thousands place
- 8 in the tens place
- 1 in the millions place
- 2 in the tenths place
- 4 in the ten-thousands place
- 0 in all the other places

Write this number in words:

What is the Prime Factorization of 18?

Write the Prime Factorization of 18 using exponents.

What is the Prime Factorization of 36?

Write the Prime Factorization of 36 using exponents.

Fill in the missing numbers:

## Divisibility

Name a number between 100 and 200 that is divisible by 2, but not by 3.

Name a number between 100 and 200 that is divisible by 2, 3, and 5.