Assignment 1

After reading the handout on divisibility and square numbers, one, hopefully, can find out if a number is divisible by a particular number. Three digit numbers are easy to find. Look at any license plate.

Divisibility by 2, 3, 4, 5, 6, 9, and 10 are very useful in this class. One would have to quickly decide if a number would be divisible by these numbers.

For each numbers, indicate if it is divisible by 2, 3, 4, 5, 6, 9, 10. Explain why for any five problems below.

874	629
816	469
714	740
475	293
545	391
924	573
50	428
438	921

2. If a 3-digit number is divisible by 4 and one subtracts a multiple of 4, would the number still be divisible by 4? Explain.

3. Complete the table

Number	prime/ Composite?	Number	prime/ composite?
3245		387	
177		291	
189		789	
276		245	

4. <i>A</i>	4. Answer, yes/ no									
	Number	square number?		Number	square number?					
	72			38						
	81			144						
	49			81						