Divisibility Rules

A number is divisible…

by…	If the…	Is/are…	
2 ✓	last digit	Even (0,2,4,6,8)	
3 ✓	sum of the digits	divisible by 3	54321…5+4+3+2+1=15 yes.
4 ✓	last two digits OR Tens digit AND ones digit OR Tens digit AND ones digit	divisible by 4 even 0,4, or 8 odd 2 or 6	87616 16/4=4…yes 67584…yes 87692 … yes
5 ✓	last digit	0 or 5	
6 ✓	number	divisible by 2&3	
7 ✓	Two times the last digit subtracted from the remaining digits	Divisible by 7	672 … 67-4=63, 63/7=9 yes 905… 90-10=80, 80/7… no 67543… 6754-6=6748… 674-16=658…65-16=49…yes
8 ✓	last 3 digits OR Hundreds digit AND last 2 digits OR Hundreds digit add 4 to last 2 digits and if sum	divisible by 8 even divisible by 8 odd divisible by 8	 e.g. 275-no , 456 - yes e.g. 389… 89+4=93 no 768…68+4=72 yes.
9 ✓	sum of the digits	divisible by 9	54321…5+4+3+2+1=15 … no
10✓	last digit	0	
11✓	Subtract the last digit from the number formed by the remaining digits Or Alternately subtract then add the digits from left to right	Divisible by 11 Equal to 0 or 11	14641… 1464-1 = 1463… 146-3=143… yes! e.g.14641 … 1-4+6-4+1=0
12✓	number	divisible by 3&4	
13	4 times the last digit is added to the remaining digits OR Multiply the last digit by 9, then subtract it from the rest of the number	Divisible by 13 Divisible by 13	e.g. 834 83+(4*4)=99,9+(9*4)=45,4+4*5=24…no e.g. 637 63+7*4=91, 9+1*4=13 yes. e.g. 834 (83-4*9=47… no) 637 (63-7*9=0… yes!)
14	number	Divisible by 2&7	
17	Five times the last digit subtracted from the remaining digits	Divisible by 17	6547 654-35=619 61-45=16 no
19	Two times the last digit added to the remaining digits	Divisible by 19	6547 654+14=668 66+16=82 8+4=12 … no
23	Seven times the last digit added to the remaining digits	Divisible by 23	2783 278+21=299 29+63=92 … 9+14=23 yes