

Divisibility Rules

2	The last digit is even	(0,2,4,6,8) 128 is 129 is not
3	The sum of the digits is divisible by 3	381 (3+8+1=12, and $12 \div 3 = 4$) Yes 217 (2+1+7=10, and $10 \div 3 = 3 \frac{1}{3}$) No 13 12 is ($12 \div 4=3$) 70 19 is not
4	The last 2 digits are divisible by 4	175 is 80 9 is not
5	The last digit is 0 or 5	114 (it is even, and $1+1+4=6$ and $6 \div 3 = 2$) Yes
6	The number is divisible by both 2 and 3	308 (it is even, but $3+0+8=11$ and $11 \div 3 = 3 \frac{2}{3}$) No 672 (Double 2 is 4, $67-4=63$, and $63 \div 7=9$) Yes
7	If you double the last digit and subtract it from the rest of the number and the answer is: 0, or 7	905 (Double 5 is 10, $90-10=80$, and $80 \div 7=11 \frac{3}{7}$) No 109 816 ($816 \div 8=102$) Yes
8	The last three digits are divisible by 8	216 302 ($302 \div 8=37 \frac{3}{4}$) No
9	The sum of the digits is divisible by 9	1629 ($1+6+2+9=18$, and again, $1+8=9$) Yes
10	The number ends in 0	2013 ($2+0+1+3=6$) No 220 is 22 1 is not
11	If you sum every second digit and then subtract all other digits and the answer is: 0, or 11	13 64 ($(3+4) - (1+6) = 0$) Yes 37 29 ($(7+9) - (3+2) = 11$) Yes 25 176 ($(5+7) - (2+1+6) = 3$) No
12	The number is divisible by both 3 and 4	648 ($6+4+8=18$ and $18 \div 3=6$, also $48 \div 4=12$) Yes 916 ($9+1+6=16$, $16 \div 3= 5 \frac{1}{3}$) No