Name Date



DIVISIBILITY RULES 1-10 CHART

EVEN NUMBERS	ODD NUMBERS	DIVISIBLE BY 1
All integers where the last	All integers where the last digit	All integers are divisible by 1.
digit ends in 0, 2, 4, 6 or 8.	ends in 1, 3, 5, 7 or 9.	
328 is even as the last digit is 8. 1314 is even as the last digit is 4.	1907 is odd as the last digit is 7. 2403 is odd as the last digit is 3.	147 is divisible by 1. 12.8 is not divisible by 1 because it is not an integer.
DIVISIBLE BY 2	DIVISIBLE BY 3	DIVISIBLE BY 4
All even integers are divisible by 2.	All integers where the total of the digits is divisible by 3 (in the 3 times table).	All even integers whose last two digits are divisible by 4.
	This rule can be repeated if needed.	A quick way to test this is to halve the last two digits twice and see if you get a whole number.
318 is divisible by 2 because the last digit is 8 which is even. 513 is not divisible by 2 because it is an odd number.	714 is divisible by 3 because 7+1+4=12 and $12\div3=4$ (divisible). 3515 is not divisible by 3 because $3+5+1+5=14$ and $14\div3=4^2/_3$ (not divisible).	1328 is divisible by 4 because 28÷4=7. 793 is not divisible by 4 because it is odd. 870 is not divisible by 4 because half of 70=35 and half of 35=17 ½.
DIVISIBLE BY 5	DIVISIBLE BY 6	DIVISIBLE BY 7
All integers whose last digit is	All even integers which are	Double the last digit and
a 0 or 5.	divisible by 3 (see Divisible by 3	subtract the result from the
	test).	number made by the other digits and see if it is divisible by 7. Repeat again if needed.
4185 is divisible by 5 because the last digit is 5. 319 is not divisible by 5 because the last digit is 9.	432 is divisible by 3 because it is even and the total of the digits is 4+3+2=9 and 9÷3=3 (divisible). 158 is not divisible by 3 because 1+5+8=14 and 14÷3=4 ² / ₃ (not divisible).	1057 is divisible by 7 because 105-2x7=91. 91÷7=13 (divisible). 841 is not divisible by 7 because 84–2x1=82. 82÷7=11 ⁵ / ₇ (not divisible).
DIVISIBLE BY 8	DIVISIBLE BY 9	DIVISIBLE BY 10
All even integers where the last 3 digits are divisible by 8. A quick way to test this is to halve the last 3 digits three times and see	All integers where the total of the digits is divisible by 9 (in the 9 times tables). This rule can be repeated if	All integers whose last digit is 0.
if you get a whole number.	needed.	
5312 is divisible by 8 because half of 312 is 156, half of 156 is 78 and half of 78=39 (a whole number). 1207 is not divisible by 8 because it is odd. 4284 is not divisible by 8 because half of 284=142 and half of 142 is 71 and half of 71 is 35.5 (not a whole number)	2745 is divisible by 9 because 2+7+4+5=18 which is divisible by 9. 702 is divisible by 9 because 7+0+2=9 which is divisible by 9. 1024 is not divisible by 9 because 1+0+2+4=7 which is not divisible by 9.	5120 is divisible by 10 because the last digit is 0. 8039 is not divisible by 10 because the last digit is 9. 2815 is not divisible by 10 because the last digit is 5.

• An **integer** is a whole number which can be positive or negative.

