

Name : _____

Score : _____

Teacher : _____

Date : _____

Is the **Number** to the left of each row divisible by the **Number** at top of each column? Write YES or NO in each box.

	2	3	4	5	6	9
1260						
3448						
2496						
2610						
1024						
3366						
2220						
6183						
5256						
2238						
2270						
1668						

Divisibility Rules

Divisor	Divisibility Condition	Example
2	The last digit is even (0, 2, 4, 6, or 8).	38 : 2 is even which is divisible by 2.
3	The sum of the digits is divisible by 3. For large numbers, digits may be summed iteratively.	4,053 => 4+0+5+3=12 and 1+2=3 which is clearly divisible by 3.
4	Add the ones digit to twice the tens digit. (All digits to the left of the tens digit can be ignored.)	7,372 : 2 + (2 x 7) = 16 which is clearly divisible by 4.
	The last two digits divisible by 4.	20,516 : 16 is divisible by 4.
	If the tens digit is even, and the ones digit is 0, 4, or 8. If the tens digit is odd, and the ones digit is 2, or 6.	728 : 2 is even, & the last digit is 8. 356 : 3 is odd, & the last digit is 6.
5	The last digit is 0 or 5.	1,285 : the last digit is 5.
6	If it is divisible by 2 and by 3.	2,562 : 2 + 5 + 6 + 2 = 15, which it is divisible by 3, and the last digit is even which is divisible by 2, so the number is divisible 6.
8	If the last three digits are divisible by 8, then the entire number is also divisible by 8.	1,024 : 024 is divisible by 8 so, 1,024 is also divisible by 8.
9	The sum of the digits is divisible by 9. For large numbers, digits may be summed iteratively.	1,269 => 1+2+6+9=18 and 1+8=9 which is clearly divisible by 9.

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	2	3	4	5	6	9
1260	YES	YES	YES	YES	YES	YES
3448	YES	NO	YES	NO	NO	NO
2496	YES	YES	YES	NO	YES	NO
2610	YES	YES	NO	YES	YES	YES
1024	YES	NO	YES	NO	NO	NO
3366	YES	YES	NO	NO	YES	YES
2220	YES	YES	YES	YES	YES	NO
6183	NO	YES	NO	NO	NO	YES
5256	YES	YES	YES	NO	YES	YES
2238	YES	YES	NO	NO	YES	NO
2270	YES	NO	NO	YES	NO	NO
1668	YES	YES	YES	NO	YES	NO

