

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

1890						
6984						
2780						
1824						
1485						
7290						
1584						
2459						
1980						
2760						
1995						
1032						

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

1890	YES	YES	NO	YES	YES	YES
6984	YES	YES	YES	NO	YES	YES
2780	YES	NO	YES	YES	NO	NO
1824	YES	YES	YES	NO	YES	NO
1485	NO	YES	NO	YES	NO	YES
7290	YES	YES	NO	YES	YES	YES
1584	YES	YES	YES	NO	YES	YES
2459	NO	NO	NO	NO	NO	NO
1980	YES	YES	YES	YES	YES	YES
2760	YES	YES	YES	YES	YES	NO
1995	NO	YES	NO	YES	NO	NO
1032	YES	YES	YES	NO	YES	NO