

Name: _____

Divisibility



Divide one number by another. If the remainder is 0, then the first number is divisible by the second.

Divisibility Rules

A number is divisible by,		Examples
2	If it is an even number (ends in 0,2,4,6 or 8)	44 and 820
3	If the sum of the digits is divisible by 3 <i>For example in the number 75, $7 + 5 = 12$ 12 is divisible by 3 so 75 is also divisible by 3</i>	513 and 45
4	If the last two digits of a the number is divisible by 4	1,3 <u>12</u> and 6,0 <u>28</u>
5	If the last digit is 0 or 5	16 <u>0</u> and 2,37 <u>5</u>
6	If the number is divisible by 2 and 3	534 and 1,332
8	If the last three digits are divisible by 8	47,120 and 9,389
9	If the sum of the digits is divisible by 9	918 and 921
10	If the last digit is a zero	380 and 1,110

Choose **yes** or **no** to state whether the following numbers are divisible by the ones in parentheses.

- 1) 58 (2) _____
- 2) 1 509 (2) _____
- 3) 59 (3) _____
- 4) 234 (3) _____
- 5) 8 023 (4) _____
- 6) 70 898 (5) _____
- 7) 42 505 (5) _____
- 8) 320 211 (6) _____
- 9) 2 304 (9) _____
- 10) 47 250 (9) _____
- 11) 65 000 (10) _____
- 12) 87 250 (10) _____