





**Example 1:** Use divisibility tests to determine whether

437, 892, 463, 248

is divisible by the following numbers.

2      3      4      5      6      8      9      10      12

- Divisible by 11: if and only if 11 divides the difference of the sum of the digits whose place values are odd powers of 10 and the sum of the digits whose place values are even powers of 10.

**Example 2:** Use the divisibility test for 11 to determine if each of the following is divisible by 11.

(a) 398,747,256

(b) 395,013,124

- Divisible by 7: if and only if the integer represented without its ones digits minus twice the ones digit of the original integer is divisible by 7.

**Example 3:** Determine if 3,685,479 is divisible by 7.