

# Divisibility Rules Chart



Here is a handy chart that lists all the divisibility rules you have learned. Any number less than 121 that does not pass any of the tests below is prime!

## Look at the digit in the ones place!

- 2:** Any number that ends in an even digit (0, 2, 4, 6, 8) is divisible by **2**.
- 5:** If the last digit is zero or 5, then the number is divisible by **5**.
- 10:** Any number ending in zero is divisible by **10**.

## Check the digit sum!

- 3:** If the digit sum is divisible by 3, then the number is divisible by **3**.
- 6:** Any even number that is divisible by 3 is also divisible by **6**.
- 9:** If the digit sum is divisible by 9, then the number is divisible by **9**.

## Use your investigation skills!

- 4:** A number is divisible by **4** if the ones digit plus twice the tens digit is divisible by 4.
- 8:** A number is divisible by **8** if the ones digit plus twice the tens digit plus four times the hundreds digit is divisible by 8.
- 7:**
  - a) Chop off the ones digit and double it.
  - b) Compare that product with the new number that is formed without the digit you've chopped off.
  - c) If the numbers are equal, the original number is divisible by **7**; if not, subtract the smaller number from the larger number. If the difference is divisible by 7, then the original number is divisible by **7**.
  - d) If you are not sure if the difference from step c is divisible by 7, repeat steps a-c. You may repeat steps a-c until the difference is a one-digit number.