

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.