

Divisibility Rules

Divisibility Rule for 2

- A number is divisible by 2 if it ends with a 2, 4, 6, 8, or 0. (In other words, it is an even number.)

Divisibility Rule for 5

- A number is divisible by 5 if it ends with a 5 or 0.

Divisibility Rule for 10

- A number is divisible by 10 if it ends with a 0.

Divisibility Rule for 3

- If the sum of the digits is divisible by 3, the number is divisible by 3.
- *For example, the digits in 45 add up to 9. Since 9 is divisible by 3, 45 is also divisible by 3.*

Divisibility Rule for 6

- If a number is divisible by 2 and it is also divisible by 3, the number is divisible by 6.
- *For example, 24 is an even number ending with the digit 4, so it is divisible by 2. Also, $2 + 4 = 6$ and 6 is divisible by 3, so 24 is divisible by 3. Since 24 is divisible by 2 and by 3, it is also divisible by 6.*

Divisibility Rule for 9

- If the sum of the digits is divisible by 9, the number is divisible by 9.
- *For example, the digits in 45 add up to 9. Since 9 is divisible by 9, 45 is also divisible by 9.*

Divisibility Rule for 4

- If the last 2 digits of a number is divisible by 4, the entire number is divisible by 4.
- *For example, the number 920 ends with 20. Since 20 is divisible by 4, 920 is also divisible by 4.*

Divisibility Rule for 8

- If the last 3 digits of a number is divisible by 8, the entire number is divisible by 8.
- *For example, the number 7,120 ends with 120. Since 120 is divisible by 8, 7,120 is also divisible by 8.*