



■ DIVISIBILITY RULES



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- The following rules will help you determine if a number is divisible by another number.
- Divisible means to divide into *evenly*.

■ A number is divisible by 2 if:

- it is an **even** number.
- An even number ends with 0,2,4,6,8.
- Example:
49**6**- ends with an even number.

496 *is* divisible by 2.

■ A number is divisible by 5 if:

- the ones digit is 0 or 5.

- Example #1:

680 – ends with a 0

680 *is* divisible by 5.

- Example #2:

965 – ends with a 5

965 *is* divisible by 5.

■ A number is divisible by 10 if:

■ the ones digit is a 0.

■ Example:

950 – ends with a 0

950 *is* divisible by 10.

■ A number is divisible by 3 if:

■ the **sum** of the digits is divisible by 3.

■ Example:

$$861: 8 + 6 + 1 = 15$$

$$\underline{\text{and}} 15 \div 3 = 5$$

861 *is* divisible by 3

■ A number is divisible by 9 if:

■ the sum of the digits is divisible by 9.

■ Example:

$$837: 8 + 3 + 7 = 18$$

$$\underline{\text{and}} 18 \div 9 = 2$$

837 is divisible by 9

■ A number is divisible by 6 if:

■ it is even *AND* it is divisible by 3.

■ Example:

864 - it is even *AND*

$$8 + 6 + 4 = 18$$

and $18 \div 3 = 6$

864 – *is* divisible by 6