Numeric and Mathematical Modules

The modules described in this chapter provide numeric and math-related functions and data types. The :mod:`numbers` module defines an abstract hierarchy of numeric types. The :mod:`math` and :mod:`cmath` modules contain various mathematical functions for floating-point and complex numbers. The :mod:`decimal` module supports exact representations of decimal numbers, using arbitrary precision arithmetic.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)numeric.rst`, **line 8**); *backlink*
>
> Unknown interpreted text role "mod".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)numeric.rst`, **line 8**); *backlink*
>
> Unknown interpreted text role "mod".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)numeric.rst`, **line 8**); *backlink*
>
> Unknown interpreted text role "mod".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)numeric.rst`, **line 8**); *backlink*
>
> Unknown interpreted text role "mod".

The following modules are documented in this chapter:

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)numeric.rst`, **line 18**)
>
> Unknown directive type "toctree".
>
> ```
> .. toctree::
>
>    numbers.rst
>    math.rst
>    cmath.rst
>    decimal.rst
>    fractions.rst
>    random.rst
>    statistics.rst
> ```