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appeal to both sides
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structures and
includes counting the

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kind and size,
deciding when
certain criteria can be
met, and
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finding "largest",
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fundamentally
discrete rather than
continuous. In
contrast to real
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the property of
varying "smoothly",
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discrete mathematics

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graphs, and
statements in logic –
do not vary smoothly
in this way, but have
distinct, separated
values.

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optimization is the
study of optimization
on discrete and

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objects. It started as a part of combinatorics and graph theory,

but is now viewed as a branch of applied mathematics and computer science, related to operations research , algorithm theory and computational complexity theory .

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enumeration,
combination, and
permutation of sets
of elements and the
mathematical
relations that
characterize their
properties.

Mathematicians
sometimes use the
term "combinatorics"
to refer to a larger
subset of discrete

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mathematics that
includes graph
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with different ways of
selecting objects

from a set or

arranging objects. It

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tries to answer two major kinds of questions, namely, counting questions: how many ways can a selection or arrangement be chosen with a particular set of properties; and structural questions: does there exist a selection or arrangement of

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will have started
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and also probability.

It then moves on to
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and group theory

come next. Structures

of particular interest

in combinatorics:

posets, graphs,

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designs follow. The

authors conclude

with further

discussion of the

interaction between

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