

NCTM Number and Operation Standard

Instructional programs from prekindergarten through grade 12 should enable all students to--

- Understand numbers, ways of representing numbers, relationships among numbers, and number systems
- Understand meanings of operations and how they relate to one another
- Compute fluently and make reasonable estimates

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This standard lists grade-specific concepts for participants.
The grades 3-5 portion states:

During grades 3–5, students should build their understanding of fractions as parts of a whole and as division. They will need to see and explore a variety of models of fractions, focusing primarily on familiar fractions such as halves, thirds, fourths, fifths, sixths, eighths, and tenths. By using an area model in which part of a region is shaded, participants can see how fractions are related to a unit whole, compare fractional parts of a whole, and find equivalent fractions.