

Math ISAT: Number Sense

Skills: Fractions and Decimals – Represent and Identify

Students:	RIT Above 261: <ul style="list-style-type: none"> • <i>No Skills Listed</i>
Students:	RIT 251-260: <ul style="list-style-type: none"> • Expresses a percent over 100 or under 1 as a fraction in lowest terms and vice versa
Students:	RIT 241-250: <ul style="list-style-type: none"> • Expresses the equivalent form of a fraction, decimal, and/or percent (complex fraction)
Students:	RIT 231-240: <ul style="list-style-type: none"> • Writes a fraction as a decimal and vice versa • Writes a fraction as a mixed decimal and vice versa • Expresses a decimal as a whole number (e.g., 1.3 thousand = ?) • Expresses a percent as a fraction and vice versa • Writes a ratio as a decimal and vice versa • Writes a ratio as a percent and vice versa
Students:	RIT 221-230: <ul style="list-style-type: none"> • Uses alternative algorithms to explain the meaning of "fraction" • Identifies the place value and value of each digit to the hundredths and thousandths • Identifies the place value and value of each digit in numbers through the ten thousandths and beyond • Writes a decimal for a shaded region (to the hundredths place) • Identifies the numeral and written name for decimals to the thousandths place • Identifies the numeral and written name for decimals to the hundred thousandths place • Determines simple equivalent fractions using multiples • Writes a simple mixed fraction as a decimal and vice versa • Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 • Determines equivalent fractions using multiples • Expresses a percent as a fraction and vice versa • Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction) • Writes a ratio as a decimal and vice versa • Writes a ratio as a percent and vice versa
Students:	RIT 211-220: <ul style="list-style-type: none"> • Writes a fraction from a non-traditional model • Writes improper fractions and mixed numbers from a visual representation • Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) • Identifies the place value and value of each digit to the tenths • Applies base ten place value concepts to solve problems using decimals (analysis) • Writes a decimal for a shaded region (to the tenths place) • Identifies the numeral and written name for decimals to the hundredths place • Expresses a simple fraction as a decimal • Writes a basic percent as a decimal and vice versa • Determines simple equivalent fractions using multiples • Writes a basic percent as a fraction and vice versa (e.g., 10%, 25%, 50%, 100%) • Writes a simple mixed fraction as a decimal and vice versa • Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 • Converts fractions to lowest terms • Writes mixed numbers as improper fractions and improper fractions as mixed numbers • Expresses a percent as a fraction with 100 as the denominator and vice versa • Expresses a percent as a decimal and vice versa
Students:	RIT 201-210: <ul style="list-style-type: none"> • Identifies halves of a region using nonadjacent parts • Identifies the place value and value of each digit to the tenths • Writes a terminating decimal as a fraction or mixed number • Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters) • Writes mixed numbers as improper fractions and improper fractions as mixed numbers
Students:	RIT 191-200: <ul style="list-style-type: none"> • Identifies fractional parts of a group or set • Identifies fourths of a region • Identifies thirds of a region • Identifies tenths from a visual representation • Identifies eighths from a visual representation • Writes a fraction from a visual representation • Uses a number line to identify a fractional point • Identifies a decimal on a number line

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Skills: Fractions and Decimals – Represent and Identify

Students:

RIT 181-190:

- Identifies equal parts by using models
- Identifies one-half from a group or set
- Identifies fractional parts of a group or set
- Writes fractional parts of a group or set
- Identifies one-half of an object from a region
- Identifies fourths of a region
- Identifies the number of fractional parts shaded in a region
- Writes a fraction from a visual representation
- Reads or writes the word names for fractions and mixed numbers
- Applies base ten place value concepts to solve problems using decimals

Students:

RIT 171-180:

- Identifies one-half from a group or set

Students:

RIT 161-170:

- *No Skills Listed*

Students:

RIT Below 161:

- *No Skills Listed*