



ReadyMade™ Fractions 2

correlated to

National Council of Teachers of Mathematics: Principles and Standards for School Mathematics

3rd Grade – 5th Grade

Number and Operations Standard

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

- recognize equivalent representations for the same number and generate them by decomposing and composing numbers

Fractions and Decimals: Level 1 – Fraction Bar and Counting Box. Both fractions and decimals show parts of a whole. In this activity students create fraction bars to represent the filled area of a decimal grid or fill a decimal grid to be equivalent to a fraction bar.

Fractions and Decimals: Level 2 – Fraction Bars and Counting Box. Fractions can also be represented as decimals. In this activity, students move fraction bars to match the correct decimal equivalent. They can use the Counting Box to check their work.

Fractions and Decimals: Level 3 – Writing Decimal Equivalents. Fractions can also be represented as decimals. In this activity, students use numbers to write the correct decimal equivalent. They can use the Counting Box to check their work.

Fractions and Decimals: Level 4 – Making Fraction Equivalents. Decimals can be represented as fractions. Students will make the fraction bars that are equivalent to given decimal amounts. They can move the fraction to the Counting Box to check their work.

Fractions and Decimals: Level 5 – Word Problems. Fractions can be represented as decimals. In this activity students will read a problem and create a fraction bar to answer the question. Then they use a Counting Box to find the decimal equivalent.



Data Analysis: Level 3: Fractions, Decimals, Percentages. Percentage Fraction bars can be used to illustrate the results of the coin flipping. The same results can be reported as percentages. In this activity, students will create a set of data and report it both as fractions and as percents.

Data Analysis: Level 4: Reporting Survey Results. In this activity, students will be looking at pictographs of survey information and reporting the results of the surveys as fractions and percents. The last three problems invite students to make their own surveys and report the results.

Data Analysis: Level 5: Word Problems. In this activity, students will be reading word problems and solving the problems by using fractions, decimals, and percentages.

- develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers

Adding Fractions: Level 1 – Pictures and Fraction Symbols. In this activity, students will be matching fraction pictures to fraction symbols, thus illustrating a given equation that adds fractions.

Adding Fractions: Level 2 – Common Denominators. In this activity, students will be given two fraction bars with the same denominator. They will add the numerators and show their answer on a third fraction bar.

Adding Fractions: Level 3 – Mixed Denominators. In this activity, students will be adding two fractions with different denominators. They will use fraction bars to help them find the lowest common denominator and then to solve the problem.

Adding Fractions: Level 4 – Word Problems. In this activity, students will be reading word problems and creating fraction bars to show both the problem and its solution.

Adding Fractions: Level 5 – Word Problems and Lowest Common Denominators. In this activity, students will read a series of word problems. The fractions in the word problems will have different denominators. Students will use fraction bars to represent the fractions, convert them to fractions with common denominators, and show their answer.

Subtracting Fractions: Level 1 – Pictures and Fraction Symbols. In this activity, students will be matching fraction pictures to fraction symbols,



thus illustrating a given equation that subtracts fractions. Subtraction problems use halves, thirds, quarters, sixths, and eighths.

Subtracting Fractions: Level 2 – Common Denominators. In this activity, students will be given two fraction bars with the same denominator. They will subtract the numerators and show their answer on a third fraction bar.

Subtracting Fractions: Level 3 – Mixed Denominators. In this activity, students will be subtracting two fractions with different denominators. They will use fraction bars to help them find the lowest common denominator and then to solve the problem.

Subtracting Fractions: Level 4 – Word Problems and Lowest Common Denominators. In this activity, students will be reading word problems with common denominators, creating fraction bars to show the problem, subtracting, and creating a fraction bar to show the solution to the problem.

Subtracting Fractions: Level 5 – Word Problems, Answer in Lowest Terms. In this activity, students will create fraction bars to show the equation presented in a subtraction word problem. They will then create another fraction bar that shows the answer in lowest terms.

Rounding Fractions: Level 1 – Half or Whole. In this activity, students will be deciding whether they need a whole or a half of a particular food item. This decision involves rounding. In this activity, students will be rounding to the nearest half or whole.

Rounding Fractions: Level 2 – Nearest Half. In this activity, students will be rounding to the nearest half. They will be deciding if a fraction bar is closer to 0, to $1/2$, or to 1 whole.

Rounding Fractions: Level 3 – Adding a Fraction Bar. In this activity, students create a fraction bar described in the problem. They decide whether the fraction is closer to 0, to $1/2$, or 1 and use numbers at the bottom to insert their answer.

Rounding Fractions: Level 4 – Nearest Tenth. In this activity, students round given fractions to the nearest tenth. They can use the tenths fraction bar provided on the page and the comparison bar to check their work. Problems 1–5 involve addition; problems 6–10 involve subtraction.

Rounding Fractions: Level 5 – Word Problems. In this activity, students read word problems that ask them to round given fractions to the nearest



appropriate unit. They place fraction bars on the page and use the comparison bar to check their work.

Fractions and Decimals: Level 1 – Fraction Bar and Counting Box. Both fractions and decimals show parts of a whole. In this activity students create fraction bars to represent the filled area of a decimal grid or fill a decimal grid to be equivalent to a fraction bar.

Fractions and Decimals: Level 2 – Fraction Bars and Counting Box. Fractions can also be represented as decimals. In this activity, students move fraction bars to match the correct decimal equivalent. They can use the Counting Box to check their work.

Fractions and Decimals: Level 3 – Writing Decimal Equivalents. Fractions can also be represented as decimals. In this activity, students use numbers to write the correct decimal equivalent. They can use the Counting Box to check their work.

Fractions and Decimals: Level 4 – Making Fraction Equivalents. Decimals can be represented as fractions. Students will make the fraction bars that are equivalent to given decimal amounts. They can move the fraction to the Counting Box to check their work.

Fractions and Decimals: Level 5 – Word Problems. Fractions can be represented as decimals. In this activity students will read a problem and create a fraction bar to answer the question. Then they use a Counting Box to find the decimal equivalent.

Data Analysis: Level 1 – Graphing and Fractions. Fraction bars can be used to show the results of repeating an event such as flipping a coin. In this activity, students will be asked create data by flipping a coin or spinning a spinner. Then they report the results of the event using fraction bars.

Data Analysis: Level 2: Reporting with Fractions. Fraction bars can be used to show the results of repeating an event such as flipping a coin. In this activity, students will be asked create data by flipping a coin or spinning a spinner. Then they report the results of the event using fraction bars.

Data Analysis: Level 3: Fractions, Decimals, Percentages. Percentage Fraction bars can be used to illustrate the results of the coin flipping. The same results can be reported as percentages. In this activity, students will create a set of data and report it both as fractions and as percents.



Data Analysis: Level 4: Reporting Survey Results. In this activity, students will be looking at pictographs of survey information and reporting the results of the surveys as fractions and percents. The last three problems invite students to make their own surveys and report the results.

Data Analysis: Level 5: Word Problems. In this activity, students will be reading word problems and solving the problems by using fractions, decimals, and percentages.

- use models, benchmarks, and equivalent forms to judge the size of fractions

Rounding Fractions: Level 1 – Half or Whole. In this activity, students will be deciding whether they need a whole or a half of a particular food item. This decision involves rounding. In this activity, students will be rounding to the nearest half or whole.

Rounding Fractions: Level 2 – Nearest Half. In this activity, students will be rounding to the nearest half. They will be deciding if a fraction bar is closer to 0, to $1/2$, or to 1 whole.

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move fraction bars to match the correct decimal equivalent. They can use the Counting Box to check their work.

Fractions and Decimals: Level 3 – Writing Decimal Equivalents.

Fractions can also be represented as decimals. In this activity, students use numbers to write the correct decimal equivalent. They can use the Counting Box to check their work.

Fractions and Decimals: Level 4 – Making Fraction Equivalents.

Decimals can be represented as fractions. Students will make the fraction bars that are equivalent to given decimal amounts. They can move the fraction to the Counting Box to check their work.

Fractions and Decimals: Level 5 – Word Problems. Fractions can be represented as decimals. In this activity students will read a problem and create a fraction bar to answer the question. Then they use a Counting Box to find the decimal equivalent.

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- recognize and generate equivalent forms of commonly used fractions, decimals, and percents

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Compute fluently and make reasonable estimates

- use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals

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Rounding Fractions: Level 4 – Nearest Tenth. In this activity, students round given fractions to the nearest tenth. They can use the tenths fraction bar provided on the page and the comparison bar to check their work. Problems 1–5 involve addition; problems 6–10 involve subtraction.

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Algebra Standard

Use mathematical models to represent and understand quantitative relationships

- model problem situations with objects and use representations such as graphs, tables, and equations to draw conclusions

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Data Analysis and Probability Standard

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

- design investigations to address a question and consider how data-collection methods affect the nature of the data set

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- collect data using observations, surveys, and experiments

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- represent data using tables and graphs such as line plots, bar graphs, and line graphs

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Problem Solving Standard



Build new mathematical knowledge through problem solving

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bar to show the solution to the problem.

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Rounding Fractions: Level 4 – Nearest Tenth. In this activity, students round given fractions to the nearest tenth. They can use the tenths fraction bar provided on the page and the comparison bar to check their work. Problems 1–5 involve addition; problems 6–10 involve subtraction.

Fractions and Decimals: Level 5 – Word Problems. Fractions can be represented as decimals. In this activity students will read a problem and create a fraction bar to answer the question. Then they use a Counting Box to find the decimal equivalent.

Data Analysis: Level 5: Word Problems. In this activity, students will be reading word problems and solving the problems by using fractions, decimals, and percentages.

Solve problems that arise in mathematics and in other contexts

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Data Analysis: Level 5: Word Problems. In this activity, students will be reading word problems and solving the problems by using fractions, decimals, and percentages.