



ReadyMade™ Fractions 1

correlated to

California Mathematics Content Standards

2nd Grade

By the end of grade two, students understand place value and number relationships in addition and subtraction, and they use simple concepts of multiplication. They measure quantities with appropriate units. They classify shapes and see relationships among them by paying attention to their geometric attributes. They collect and analyze data and verify the answers.

Number Sense

4.0 Students understand that fractions and decimals may refer to parts of a set and parts of a whole:

4.1 Recognize, name, and compare unit fractions from $\frac{1}{12}$ to $\frac{1}{2}$.

Parts of a Set: Level 1 – Using a Fraction Bar. In this activity, students will use a fraction bar to represent the number of circles in a set that are black. The denominator represents the total number of items in the set. The numerator indicates the number of black circles. Sets contain 5 to 12 objects.

Parts of a Set: Level 2 – Creating a Fraction Bar. In this activity, students create a fraction bar with a denominator that represents the total number of items in the set. Then they will change the numerator to indicate the number of black circles in the set. Sets contain 5 to 12 objects.

Parts of a Set: Level 3 – Two Fraction Bars. In this activity, students create two fraction bars, each with a denominator that represents the total number of items in a set. One of the numerators indicates the number of black circles in the set; the other shows the number of green circles. Sets contain 4 to 16 objects.

Parts of a Set: Level 4 – Creating Sets and Fraction Bars. In this activity, students insert a specific number of green and black circles on



the page and then create a fraction bar to show the number of black circles in the set. Sets contain 4 to 16 objects.

Parts of a Set: Level 5 – Word Problems. In this activity, students will read questions about sets of objects. Then they will create a fraction bar to answer the question about the items in the set.

Equivalent Fractions: Level 1 – Matching. In this activity, students will be matching fraction pictures of brownies with numerical symbols. Students will be working with halves, thirds, quarters, sixths, and eighths.

Equivalent Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be given one fraction bar and asked to create a different but equivalent fraction bar. Students will be working with thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 3 – Four Fractions Bar. In this activity, students will be given one fraction bar and asked to create three different but equivalent fraction bars. Students will be given fraction bars showing thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 4 – Fraction Symbols and Fraction Bars. In this activity, students will be given a fraction symbol and asked to make a fraction bar that is different from but equivalent to symbols showing thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.

Equivalent Fractions: Level 5 – Lowest Common Denominator. In this activity, students will create a fraction bar that represents the object pictured on the page. They will then create an equivalent fraction with the lowest common denominator.

Number Line Fractions: Level 1- Measuring to the Nearest Fourth. In this activity, students will be using a number line divided into fourths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest fourth.

Number Line Fractions: Level 2- Measuring to the Nearest Tenth. In this activity, students will be using a number line divided into tenths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest tenth.



Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

Number Line Fractions: Level 4 – Addition and Subtraction. In this activity, students will use a number line to help them visualize and understand addition and subtraction of fractions.

Number Line Fractions: Level 5 – Reading Number Lines. In this activity, students will determine into how many fractional parts a number line has been divided. Then they will report the location of an animal on that number line as a fraction.

Comparing Fractions: Level 1 – Using Shapes. In this activity, students will be comparing fractions to decide if one fraction is greater than ($>$), less than ($<$), or equal to ($=$) a second fraction. Each fraction is expressed as a numerical symbol and as a picture (a circle divided into sections).

Comparing Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be comparing fraction bars to decide whether a fraction is greater than, less than, or equal to a second fraction. They will verify their answer using a comparison bar. Each fraction is expressed as a numerical symbol and as a fraction bar.

Comparing Fractions: Level 3 – Create Fraction Bars. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 4 – Words and Symbols. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will use on-screen manipulatives to show their thinking and verify their answers.



Sorting Fractions: Level 1 – Smallest to Largest Fraction Pictures. In this activity, students will be asked to sort pictures of food that has been divided into fractions. They will move the pan or dish with the smallest fraction to the left and the pan or dish with the largest fraction to the right, matching each to fraction symbols on the page.

Sorting Fractions: Level 2 – Fraction Bars. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to fifths).

Sorting Fractions: Level 3 – Different Denominators. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to twenty-fifths).

Sorting Fractions: Level 4 – Fraction Symbols. In this activity, students will be asked to sort fraction symbols, from the smallest on the left to the largest fraction symbol on the right. Fractions will usually have different denominators (from halves to twelfths).

Sorting Fractions: Level 5 – Pictures and Fraction Bars. In this activity, students will be asked to sort fraction pictures, from the smallest on the left to the largest fraction pictures on the right. Fractions will usually have different denominators (from thirds to twelfths). Students are encouraged to create fraction bars to check their work.

4.2 Recognize fractions of a whole and parts of a group (e.g., one-fourth of a pie, two-thirds of 15 balls).

Parts of a Set: Level 1 – Using a Fraction Bar. In this activity, students will use a fraction bar to represent the number of circles in a set that are black. The denominator represents the total number of items in the set. The numerator indicates the number of black circles. Sets contain 5 to 12 objects.

Parts of a Set: Level 2 – Creating a Fraction Bar. In this activity, students create a fraction bar with a denominator that represents the total number of items in the set. Then they will change the numerator to indicate the number of black circles in the set. Sets contain 5 to 12 objects.



Parts of a Set: Level 3 – Two Fraction Bars. In this activity, students create two fraction bars, each with a denominator that represents the total number of items in a set. One of the numerators indicates the number of black circles in the set; the other shows the number of green circles. Sets contain 4 to 16 objects.

Parts of a Set: Level 4 – Creating Sets and Fraction Bars. In this activity, students insert a specific number of green and black circles on the page and then create a fraction bar to show the number of black circles in the set. Sets contain 4 to 16 objects.

Parts of a Set: Level 5 – Word Problems. In this activity, students will read questions about sets of objects. Then they will create a fraction bar to answer the question about the items in the set.

Equivalent Fractions: Level 1 – Matching. In this activity, students will be matching fraction pictures of brownies with numerical symbols. Students will be working with halves, thirds, quarters, sixths, and eighths.

Equivalent Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be given one fraction bar and asked to create a different but equivalent fraction bar. Students will be working with thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 3 – Four Fractions Bar. In this activity, students will be given one fraction bar and asked to create three different but equivalent fraction bars. Students will be given fraction bars showing thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 4 – Fraction Symbols and Fraction Bars. In this activity, students will be given a fraction symbol and asked to make a fraction bar that is different from but equivalent to symbols showing thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.

Equivalent Fractions: Level 5 – Lowest Common Denominator. In this activity, students will create a fraction bar that represents the object pictured on the page. They will then create an equivalent fraction with the lowest common denominator.

Number Line Fractions: Level 1- Measuring to the Nearest Fourth. In this activity, students will be using a number line divided into fourths. They will be given a series of objects and asked to measure



each object along the number line, giving their answer to the nearest fourth.

Number Line Fractions: Level 2- Measuring to the Nearest Tenth. In this activity, students will be using a number line divided into tenths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest tenth.

Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

Number Line Fractions: Level 4 – Addition and Subtraction. In this activity, students will use a number line to help them visualize and understand addition and subtraction of fractions.

Number Line Fractions: Level 5 – Reading Number Lines. In this activity, students will determine into how many fractional parts a number line has been divided. Then they will report the location of an animal on that number line as a fraction.

Comparing Fractions: Level 1 – Using Shapes. In this activity, students will be comparing fractions to decide if one fraction is greater than ($>$), less than ($<$), or equal to ($=$) a second fraction. Each fraction is expressed as a numerical symbol and as a picture (a circle divided into sections).

Comparing Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be comparing fraction bars to decide whether a fraction is greater than, less than, or equal to a second fraction. They will verify their answer using a comparison bar. Each fraction is expressed as a numerical symbol and as a fraction bar.

Comparing Fractions: Level 3 – Create Fraction Bars. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 4 – Words and Symbols. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.



Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will use on-screen manipulatives to show their thinking and verify their answers.

Sorting Fractions: Level 1 – Smallest to Largest Fraction Pictures. In this activity, students will be asked to sort pictures of food that has been divided into fractions. They will move the pan or dish with the smallest fraction to the left and the pan or dish with the largest fraction to the right, matching each to fraction symbols on the page.

Sorting Fractions: Level 2 – Fraction Bars. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to fifths).

Sorting Fractions: Level 3 – Different Denominators. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to twenty-fifths).

Sorting Fractions: Level 4 – Fraction Symbols. In this activity, students will be asked to sort fraction symbols, from the smallest on the left to the largest fraction symbol on the right. Fractions will usually have different denominators (from halves to twelfths).

Sorting Fractions: Level 5 – Pictures and Fraction Bars. In this activity, students will be asked to sort fraction pictures, from the smallest on the left to the largest fraction pictures on the right. Fractions will usually have different denominators (from thirds to twelfths). Students are encouraged to create fraction bars to check their work.

4.3 Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.

Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second



fraction. They will use on-screen manipulatives to show their thinking and verify their answers.

Equivalent Fractions: Level 1 – Matching. In this activity, students will be matching fraction pictures of brownies with numerical symbols. Students will be working with halves, thirds, quarters, sixths, and eighths.

Sorting Fractions: Level 2 – Fraction Bars. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to fifths).

Sorting Fractions: Level 3 – Different Denominators. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to twenty-fifths).

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Sorting Fractions: Level 5 – Pictures and Fraction Bars. In this activity, students will be asked to sort fraction pictures, from the smallest on the left to the largest fraction pictures on the right. Fractions will usually have different denominators (from thirds to twelfths). Students are encouraged to create fraction bars to check their work.

6.0 Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places:

6.1 Recognize when an estimate is reasonable in measurements (e.g., closest inch).

Number Line Fractions: Level 1- Measuring to the Nearest Fourth. In this activity, students will be using a number line divided into fourths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest fourth.

Number Line Fractions: Level 2- Measuring to the Nearest Tenth. In this activity, students will be using a number line divided into tenths.



They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest tenth.

Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

Algebra and Functions

1.0 Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction:

1.3 Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.

Number Line Fractions: Level 4 – Addition and Subtraction. In this activity, students will use a number line to help them visualize and understand addition and subtraction of fractions.

Measurement and Geometry

1.0 Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the item to be measured:

1.1 Measure the length of objects by iterating (repeating) a nonstandard or standard unit.

Number Line Fractions: Level 1- Measuring to the Nearest Fourth. In this activity, students will be using a number line divided into fourths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest fourth.

Number Line Fractions: Level 2- Measuring to the Nearest Tenth. In this activity, students will be using a number line divided into tenths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest tenth.

Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into



fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

1.2 Use different units to measure the same object and predict whether the measure will be greater or smaller when a different unit is used.

Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

3rd Grade

By the end of grade three, students deepen their understanding of place value and their understanding of and skill with addition, subtraction, multiplication, and division of whole numbers. Students estimate, measure, and describe objects in space. They use patterns to help solve problems. They represent number relationships and conduct simple probability experiments.

Number Sense

3.0 Students understand the relationship between whole numbers, simple fractions, and decimals:

3.1 Compare fractions represented by drawings or concrete materials to show equivalency and to add and subtract simple fractions in context (e.g., $1/2$ of a pizza is the same amount as $2/4$ of another pizza that is the same size; show that $3/8$ is larger than $1/4$).

Comparing Fractions: Level 1 – Using Shapes. In this activity, students will be comparing fractions to decide if one fraction is greater than ($>$), less than ($<$), or equal to ($=$) a second fraction. Each fraction is expressed as a numerical symbol and as a picture (a circle divided into sections).

Comparing Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be comparing fraction bars to decide whether a fraction is greater than, less than, or equal to a second fraction. They



will verify their answer using a comparison bar. Each fraction is expressed as a numerical symbol and as a fraction bar.

Comparing Fractions: Level 3 – Create Fraction Bars. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 4 – Words and Symbols. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will use on-screen manipulatives to show their thinking and verify their answers.

Equivalent Fractions: Level 1 – Matching. In this activity, students will be matching fraction pictures of brownies with numerical symbols. Students will be working with halves, thirds, quarters, sixths, and eighths.

Equivalent Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be given one fraction bar and asked to create a different but equivalent fraction bar. Students will be working with thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 3 – Four Fractions Bar. In this activity, students will be given one fraction bar and asked to create three different but equivalent fraction bars. Students will be given fraction bars showing thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 4 – Fraction Symbols and Fraction Bars. In this activity, students will be given a fraction symbol and asked to make a fraction bar that is different from but equivalent to symbols showing thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.

Equivalent Fractions: Level 5 – Lowest Common Denominator. In this activity, students will create a fraction bar that represents the



object pictured on the page. They will then create an equivalent fraction with the lowest common denominator.

Sorting Fractions: Level 1 – Smallest to Largest Fraction Pictures. In this activity, students will be asked to sort pictures of food that has been divided into fractions. They will move the pan or dish with the smallest fraction to the left and the pan or dish with the largest fraction to the right, matching each to fraction symbols on the page.

Sorting Fractions: Level 2 – Fraction Bars. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to fifths).

Sorting Fractions: Level 3 – Different Denominators. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to twenty-fifths).

Sorting Fractions: Level 4 – Fraction Symbols. In this activity, students will be asked to sort fraction symbols, from the smallest on the left to the largest fraction symbol on the right. Fractions will usually have different denominators (from halves to twelfths).

Sorting Fractions: Level 5 – Pictures and Fraction Bars. In this activity, students will be asked to sort fraction pictures, from the smallest on the left to the largest fraction pictures on the right. Fractions will usually have different denominators (from thirds to twelfths). Students are encouraged to create fraction bars to check their work.

3.2 Add and subtract simple fractions (e.g., determine that $\frac{1}{8} + \frac{3}{8}$ is the same as $\frac{1}{2}$).

Number Line Fractions: Level 4 – Addition and Subtraction. In this activity, students will use a number line to help them visualize and understand addition and subtraction of fractions.

Algebra and Functions

1.0 Students select appropriate symbols, operations, and properties to represent, describe, simplify, and solve simple number relationships:



1.1 Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities.

Comparing Fractions: Level 1 – Using Shapes. In this activity, students will be comparing fractions to decide if one fraction is greater than ($>$), less than ($<$), or equal to ($=$) a second fraction. Each fraction is expressed as a numerical symbol and as a picture (a circle divided into sections).

Comparing Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be comparing fraction bars to decide whether a fraction is greater than, less than, or equal to a second fraction. They will verify their answer using a comparison bar. Each fraction is expressed as a numerical symbol and as a fraction bar.

Comparing Fractions: Level 3 – Create Fraction Bars. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 4 – Words and Symbols. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will use on-screen manipulatives to show their thinking and verify their answers.

Equivalent Fractions: Level 1 – Matching. In this activity, students will be matching fraction pictures of brownies with numerical symbols. Students will be working with halves, thirds, quarters, sixths, and eighths.

Equivalent Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be given one fraction bar and asked to create a different but equivalent fraction bar. Students will be working with thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 3 – Four Fractions Bar. In this activity, students will be given one fraction bar and asked to create three



different but equivalent fraction bars. Students will be given fraction bars showing thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 4 – Fraction Symbols and Fraction Bars. In this activity, students will be given a fraction symbol and asked to make a fraction bar that is different from but equivalent to symbols showing thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.

Equivalent Fractions: Level 5 – Lowest Common Denominator. In this activity, students will create a fraction bar that represents the object pictured on the page. They will then create an equivalent fraction with the lowest common denominator.

1.2 Solve problems involving numeric equations or inequalities.

Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will use on-screen manipulatives to show their thinking and verify their answers.

4th Grade

By the end of grade four, students understand large numbers and addition, subtraction, multiplication, and division of whole numbers. They describe and compare simple fractions and decimals. They understand the properties of, and the relationships between, plane geometric figures. They collect, represent, and analyze data to answer questions.

Number Sense

1.0 Students understand the place value of whole numbers and decimals to two decimal places and how whole numbers and decimals relate to simple fractions. Students use the concepts of negative numbers:

1.5 Explain different interpretations of fractions, for example, parts of a whole, parts of a set, and division of whole numbers by whole numbers; explain equivalents of fractions (see Standard 4.0).



Comparing Fractions: Level 1 – Using Shapes. In this activity, students will be comparing fractions to decide if one fraction is greater than ($>$), less than ($<$), or equal to ($=$) a second fraction. Each fraction is expressed as a numerical symbol and as a picture (a circle divided into sections).

Comparing Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be comparing fraction bars to decide whether a fraction is greater than, less than, or equal to a second fraction. They will verify their answer using a comparison bar. Each fraction is expressed as a numerical symbol and as a fraction bar.

Comparing Fractions: Level 3 – Create Fraction Bars. In this activity, students will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

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Equivalent Fractions: Level 3 – Four Fractions Bar. In this activity, students will be given one fraction bar and asked to create three different but equivalent fraction bars. Students will be given fraction bars showing thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.



Equivalent Fractions: Level 4 – Fraction Symbols and Fraction Bars.

In this activity, students will be given a fraction symbol and asked to make a fraction bar that is different from but equivalent to symbols showing thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.

Equivalent Fractions: Level 5 – Lowest Common Denominator.

In this activity, students will create a fraction bar that represents the object pictured on the page. They will then create an equivalent fraction with the lowest common denominator.

Parts of a Set: Level 1 – Using a Fraction Bar. In this activity, students will use a fraction bar to represent the number of circles in a set that are black. The denominator represents the total number of items in the set. The numerator indicates the number of black circles. Sets contain 5 to 12 objects.

Parts of a Set: Level 2 – Creating a Fraction Bar. In this activity, students create a fraction bar with a denominator that represents the total number of items in the set. Then they will change the numerator to indicate the number of black circles in the set. Sets contain 5 to 12 objects.

Parts of a Set: Level 3 – Two Fraction Bars. In this activity, students create two fraction bars, each with a denominator that represents the total number of items in a set. One of the numerators indicates the number of black circles in the set; the other shows the number of green circles. Sets contain 4 to 16 objects.

Parts of a Set: Level 4 – Creating Sets and Fraction Bars. In this activity, students insert a specific number of green and black circles on the page and then create a fraction bar to show the number of black circles in the set. Sets contain 4 to 16 objects.

Parts of a Set: Level 5 – Word Problems. In this activity, students will read questions about sets of objects. Then they will create a fraction bar to answer the question about the items in the set.

Sorting Fractions: Level 1 – Smallest to Largest Fraction Pictures. In this activity, students will be asked to sort pictures of food that has been divided into fractions. They will move the pan or dish with the smallest fraction to the left and the pan or dish with the largest fraction to the right, matching each to fraction symbols on the page.



Sorting Fractions: Level 2 – Fraction Bars. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to fifths).

Sorting Fractions: Level 3 – Different Denominators. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to twenty-fifths).

Sorting Fractions: Level 4 – Fraction Symbols. In this activity, students will be asked to sort fraction symbols, from the smallest on the left to the largest fraction symbol on the right. Fractions will usually have different denominators (from halves to twelfths).

Sorting Fractions: Level 5 – Pictures and Fraction Bars. In this activity, students will be asked to sort fraction pictures, from the smallest on the left to the largest fraction pictures on the right. Fractions will usually have different denominators (from thirds to twelfths). Students are encouraged to create fraction bars to check their work.

1.7 Write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line.

Comparing Fractions: Level 1 – Using Shapes. In this activity, students will be comparing fractions to decide if one fraction is greater than ($>$), less than ($<$), or equal to ($=$) a second fraction. Each fraction is expressed as a numerical symbol and as a picture (a circle divided into sections).

Comparing Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be comparing fraction bars to decide whether a fraction is greater than, less than, or equal to a second fraction. They will verify their answer using a comparison bar. Each fraction is expressed as a numerical symbol and as a fraction bar.

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Comparing Fractions: Level 4 – Words and Symbols. In this activity, students will be deciding if one fraction is greater than, less than, or



equal to a second fraction. They will create fraction bars and use comparison bars to show their thinking and verify their answers.

Comparing Fractions: Level 5 – Word Problems. In this activity, students will read a series of word problems. The fractions in the word problems include both parts of a whole and parts of a set. They will be deciding if one fraction is greater than, less than, or equal to a second fraction. They will use on-screen manipulatives to show their thinking and verify their answers.

Equivalent Fractions: Level 1 – Matching. In this activity, students will be matching fraction pictures of brownies with numerical symbols. Students will be working with halves, thirds, quarters, sixths, and eighths.

Equivalent Fractions: Level 2 – Using a Comparison Bar. In this activity, students will be given one fraction bar and asked to create a different but equivalent fraction bar. Students will be working with thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 3 – Four Fractions Bar. In this activity, students will be given one fraction bar and asked to create three different but equivalent fraction bars. Students will be given fraction bars showing thirds, fourths, fifths, sixths, ninths, twelfths, and twentieths.

Equivalent Fractions: Level 4 – Fraction Symbols and Fraction Bars. In this activity, students will be given a fraction symbol and asked to make a fraction bar that is different from but equivalent to symbols showing thirds, fourths, fifths, sixths, eighths, tenths, and twelfths.

Equivalent Fractions: Level 5 – Lowest Common Denominator. In this activity, students will create a fraction bar that represents the object pictured on the page. They will then create an equivalent fraction with the lowest common denominator.

Number Line Fractions: Level 1- Measuring to the Nearest Fourth. In this activity, students will be using a number line divided into fourths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest fourth.

Number Line Fractions: Level 2- Measuring to the Nearest Tenth. In this activity, students will be using a number line divided into tenths.



They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest tenth.

Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

Number Line Fractions: Level 4 – Addition and Subtraction. In this activity, students will use a number line to help them visualize and understand addition and subtraction of fractions.

Number Line Fractions: Level 5 – Reading Number Lines. In this activity, students will determine into how many fractional parts a number line has been divided. Then they will report the location of an animal on that number line as a fraction.

Parts of a Set: Level 1 – Using a Fraction Bar. In this activity, students will use a fraction bar to represent the number of circles in a set that are black. The denominator represents the total number of items in the set. The numerator indicates the number of black circles. Sets contain 5 to 12 objects.

Parts of a Set: Level 2 – Creating a Fraction Bar. In this activity, students create a fraction bar with a denominator that represents the total number of items in the set. Then they will change the numerator to indicate the number of black circles in the set. Sets contain 5 to 12 objects.

Parts of a Set: Level 3 – Two Fraction Bars. In this activity, students create two fraction bars, each with a denominator that represents the total number of items in a set. One of the numerators indicates the number of black circles in the set; the other shows the number of green circles. Sets contain 4 to 16 objects.

Parts of a Set: Level 4 – Creating Sets and Fraction Bars. In this activity, students insert a specific number of green and black circles on the page and then create a fraction bar to show the number of black circles in the set. Sets contain 4 to 16 objects.

Parts of a Set: Level 5 – Word Problems. In this activity, students will read questions about sets of objects. Then they will create a fraction bar to answer the question about the items in the set.



Sorting Fractions: Level 1 – Smallest to Largest Fraction Pictures. In this activity, students will be asked to sort pictures of food that has been divided into fractions. They will move the pan or dish with the smallest fraction to the left and the pan or dish with the largest fraction to the right, matching each to fraction symbols on the page.

Sorting Fractions: Level 2 – Fraction Bars. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to fifths).

Sorting Fractions: Level 3 – Different Denominators. In this activity, students will be asked to sort fraction bars from the smallest on the left to the largest fraction bar on the right. Problems include fractions with different denominators (from halves to twenty-fifths).

Sorting Fractions: Level 4 – Fraction Symbols. In this activity, students will be asked to sort fraction symbols, from the smallest on the left to the largest fraction symbol on the right. Fractions will usually have different denominators (from halves to twelfths).

Sorting Fractions: Level 5 – Pictures and Fraction Bars. In this activity, students will be asked to sort fraction pictures, from the smallest on the left to the largest fraction pictures on the right. Fractions will usually have different denominators (from thirds to twelfths). Students are encouraged to create fraction bars to check their work.

1.9 Identify on a number line the relative position of positive fractions, positive mixed numbers, and positive decimals to two decimal places.

Number Line Fractions: Level 1- Measuring to the Nearest Fourth. In this activity, students will be using a number line divided into fourths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest fourth.

Number Line Fractions: Level 2- Measuring to the Nearest Tenth. In this activity, students will be using a number line divided into tenths. They will be given a series of objects and asked to measure each object along the number line, giving their answer to the nearest tenth.



Number Line Fractions: Level 3 - Comparing Tenths and Fourths. In this activity, students will use two number lines, one divided into fourths and one divided into tenths. They are asked to measure each object along both number lines, decide which number line gives a more accurate measurement, and record that answer.

Number Line Fractions: Level 4 – Addition and Subtraction. In this activity, students will use a number line to help them visualize and understand addition and subtraction of fractions.

Number Line Fractions: Level 5 – Reading Number Lines. In this activity, students will determine into how many fractional parts a number line has been divided. Then they will report the location of an animal on that number line as a fraction.