

Alignment of PRIME 2 Fraction Activities with *Everyday Math* Lessons
Grade 5 EM Lesson Order

PRIME2 Activity	Mathematics Concept	Use with Grade 4 EM lesson	Use with Grade 5 EM lesson	Notes	CCSS – M Standard
<i>Fac Tac Toe</i>	Multiplication and factors	3.3 Multiplication Facts Practice	2.8 Multiplication of Whole Numbers and Decimals	Excellent game for both grades and for ongoing practice.	5.NF.4
<i>Cookie division problems vs Rose division problem</i>	Understanding partitive and quotative division	3.4 Multiplication and Division	4.2 Partial Quotient Division Algorithm	Grade 4: Consider this activity in conjunction with Division Sort Problems as a precursor to 3.4 on division in EM. Grade 5: Use this with Cookie and Rose model to investigate the two meanings of division before presenting the partial quotient algorithm.	3.OA.6
<i>Division Sort Problems (partitive or quotative)</i>	Understanding partitive and quotative division	3.4 Multiplication and Division	4.2 Partial Quotient Division Algorithm	Grade 4: Consider this activity in conjunction with Cookie and Rose model as a precursor to 3.4 on division in EM. Grade 5: Use this with Cookie and Rose model to investigate the two meanings of division before presenting the partial quotient algorithm.	3.OA.6
<i>Two Green Triangles/ What Do You Call the ___?/ Naming Fractional Parts</i>	Reunitizing	7.10 The ONE for Fractions	5.1 Fraction Review	Grade 4: Could be used as replacement for EM lesson. Grade 5: May be used as reminder of the importance of defining the “whole” as part of the fraction review.	4.NF.2 5.NF.3
<i>Use unit fractions to determine “1” on a number line</i>	Build fractions from unit fractions	7.1 Review of Basic Fraction Concepts 7.10 The ONE for Fractions	5.1 Fraction Review	Grade 4: Activity is similar to MJ2 p.187 on TE p.573. May be used after this EM page. Grade 5: May be used anywhere in 5.1	4.NF.3b
<i>Using Tangrams to Reunitize the Whole</i>	Reunitizing; Multiplication of fractions	7.10 The ONE for Fractions	5.1 Fraction Review	Grade 4: Similar to Two Green Triangles, but more complex. May be used as extension activity. Grade 5: May be used as reminder of the importance of defining the “whole” as part of the fraction review.	4.NF.2 5.NF.3
<i>Fractions of a Square</i>	Dividing an area model; identifying fractions of a region	7.4 Pattern-Block Fractions	5.1 Fraction Review	Grade 4: Use after Pattern Block Fractions activities. Grade 5: An open-ended question that may be used anywhere in this EM lesson.	4.NF.1, 4.NF.3a,b
<i>Fractiono. Three in a row!</i>	Arithmetic Operations with fractions	Above Grade 4 standards	5.1 Fraction Review	Grade 5: Could be used as precursor to lesson 8.2. Practice with fractions before moving onto the mixed numbers of the lesson.	5.NF.3
<i>Determine fractions on a number line : CMP Number Lines</i>	Situate fractions on a number line	7.9 Comparing Fractions	5.1 Fraction Review 5.2 Mixed Numbers	Grade 4: Some number line activities may be challenging for Grade 4. Grade 5: Some number line activities may be challenging for Grade 5.	4.NF.2 4.NF.3b

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<i>Sum Target Problems</i>	Addition of fractions	Above grade 4 standards	5.3 Comparing & Ordering Fractions	Grade 5: Could be used after “Adding with Fraction Sticks” MJ page 131 to extend addition of fractions with unlike denominators.	5.NF.1
<i>Making a Number Line</i>	Comparing fractions, equivalent fractions	7.1 Review of Basic Fraction Concepts 7.7 Equivalent fractions 7.9 Comparing Fractions	5.3 Comparing and Ordering Fractions	Grade 4: Use within different EM lessons to model similar concepts.	4.NF.1 5.NF.1
<i>Comparing Fraction Pairs</i>	Use a variety of strategies to compare/order fractions	7.9 Comparing Fractions	5.3 Comparing and Ordering Fractions 8.1 Review: Comparing Fractions	Grade 4: May be used at end of 7.9 Part 1. Grade 5: May be used in 5.3 after ‘Ordering Fractions’ in Part 1. May also be used in 8.1 in ‘Comparing Fractions Using Common Denominators’.	4.NF.2
<i>Measuring with Fraction Strips/Cuisenaire rods</i>	Fraction addition	7.5 Fraction Addition and Subtraction	5.3 Comparing and Ordering Fractions 6.8 Using a Slide Rule to Add and Subtract Fractions	Consider using Cuisenaire rods if available instead of fraction strips. Grade 5: May be used in 5.3 to support MJ1, page 131 in TE page 131.	5.NF.2
<i>Compare Fractions to 0, ½, and 1</i>	Using benchmarks to compare/order fractions	7.9 Comparing Fractions	5.3 Comparing and Ordering Fractions	Grade 4: Can be used after Comparing Fractions with ½ MJ2, page 205. Grade 5: May be used in 5.3 after ‘Ordering Fractions’ in Part 1.	4.NF.2
<i>Dinosaur Pie</i>	Repartitioning and chunking to get equivalent fractions	7.7 Equivalent fractions	5.4 Two Rules for Finding Equivalent Fractions	Grade 4: May be used after teaching Part 1.	4.NF.1 5.NF.3
<i>Fraction Kit</i>	Equivalent fractions, operations with fractions	7.4 Pattern Block Fractions 7.5 Fraction Addition and Subtraction 7.6 Many Names for Fractions 7*7 Equivalent fractions	5.4 Two Rules for Finding Equivalent Fractions 8.2 Adding Mixed Numbers 8.3 Subtracting Mixed Numbers	Grade 4: Use kit within different EM lessons to model similar concepts. Grade 5: May be used as an alternative model to drawing of rectangle in 5.4. For 8.2 and 8.3, may use fraction kit to model + and - with mixed numbers.	3.NF.1, 3.NF.3a,b 4.NF.1, 4.NF.2 5.NF.1
<i>Getting to One</i>	decimals as part of a whole	9.3: Using calculator to rename fractions to decimals	5.7 Fractions and Decimals Pt* 2	Grade 5: Using calculator to convert fractions to decimals. Could use this activity as a formative assessment at end of lesson. Grade 4: Could be used in conjunction with Study Link 9.3 and as subsequent formative assessment and practice.	5.NF.3
<i>100 Beads</i>	Converting fractions to decimals & percents	Above grade 4 standards	5.10 The Percent Circle: Reading Circle Graphs 5.11 The Percent Circle: Making Circle Graphs	Grade 5: May be used as a substitute for EM lessons.	5.MD.2

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<i>Fractured Fractions game</i>	Addition and subtraction of fractions	7.5 Fraction Addition & Subtraction	6.8 Using a Slide Rule to Add & Subtract Fractions	Grade 4: Use with pattern blocks to help students with fraction addition. Grade 5: Could be used before lesson to practice fraction addition with pattern blocks. Could be used after lesson with the sum totals changed to greater than 1.	4.NF.3b 5.NF.1
<i>Adding and Subtracting Fractions on a Number Line</i>	Addition and subtraction of fractions	7.5 Fraction Addition & Subtraction	6.8 Using a Slide Rule to Add & Subtract Fractions 8.2 Adding Mixed Numbers 8.3 Subtracting Mixed Numbers	Grade 4: Change fractions to those with like denominators only. Use to introduce another visualization of fractions. Grade 5: May replace Lesson 6.8. Use to provide alternative model to fraction pies in Lessons 8.2 & 8.3 and to provide support for addition and subtraction practice. May change to or add mixed numbers as well.	5.NF.1 4.NF.3a, c
<i>Fraction Sentences</i>	Addition and subtraction of fractions	7.7: Equivalent Fractions	8.2: Adding Mixed Numbers	Grade 4: Could be used to deepen practice with equivalent fractions and addition/subtraction as long as it is modeled with concrete as well. Grade 5: Could be used to deepen practice with addition/subtraction of fractions. Could be a stand alone lesson with concrete models to support.	4.NF.3c 5.NF.1
<i>Fraction Track game</i>	Addition and subtraction of fractions	7.5 Fraction Addition & Subtraction	8.2 Adding Mixed Numbers 8.3 Subtracting Mixed Numbers	Grade 4: May be used with like denominators or for a challenge activity. Grade 5: Excellent game to practice addition and subtraction on the number line. *This game is also available in an electronic version at http://illuminations.nctm.org/ActivityDetail.aspx?ID=18	4.NF.2 5.NF.1
<i>Fractions with Cuisenaire Rods</i>	Multiplication of Fractions	7.4 Pattern Block Fractions	8.5 Fractions of Fractions	Grade 4: May be used as a substitute for pattern block lesson. Grade 5: May be used as replacement for EM lesson.	4.NF.2 5.NF.5b
<i>Exploring Playgrounds</i>	Multiplication of fractions	Above Grade 4 standard	8.5 Fractions of Fractions	Grade 5: Excellent for introduction the concept of fraction multiplication. Use prior to the EM lesson.	5.NF.6
<i>Fraction Multiplication and Cutting Paper</i>	Multiplication of Fractions	Above Grade 4 standards	8.6 An Area Model for Fraction Multiplication	Grade 5: May be used as a substitute for or additional practice with EM lesson.	5.NF.4b

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<i>Sara's Candy Problem</i>	Multiplication of fractions	Above Grade 4 standards	8.6 Area Model for Fraction Multiplication	Grade 5: Recommended to teach diagramming model as a strategy for students to multiply fractions.	5.NF.4
<i>Field Trip Sandwich Problems</i>	Equal shares Fraction addition	7.1 Review of Basic Fraction Concepts 7.5 Fraction Addition and Subtraction	8.12 Fraction Division	Grade 4: Use to provide alternative model to pattern blocks.	4.NF.3 5.NF.3, 5.NF.7b
<i>Division of fractions pattern worksheets</i>	Division of fractions	Above Grade 4 standards	8.12 Fraction Division	Grade 5: Use in conjunction with Cookie/Rose division models to discuss the patterns of division of whole numbers by fractions.	5.NF.7
<i>Naked Fractions</i>	Modeling division of fractions	Above Grade 4 standards	8.12 Fraction Division	Grade 5: Use with concrete models to practice the concept of division of whole numbers by fractions.	5.NF.7c
<i>Smallest and largest quotient</i>	Division of fractions	Above Grade 4 standards	8.12 Fraction Division	Grade 5: Could be used as extended practice or challenge problem.	5.NF.3