Grade 5 Unit 2 Section A Fractions as Quotients and Fraction Multiplication Lessons 1-5

Goals:
- Students develop an understanding of fractions as the division of the numerator by the denominator, that is a ÷ b = a/b, and solve problems that involve the multiplication of a whole number and a fraction, including fractions greater than 1.
- Represent and explain the relationship between division and fractions.
- Solve problems involving division of whole numbers leading to answers that are fractions.
- 5th Grade Unit 2- I Can Statements
- 5th Grade- Unit 2 Centers

IM Lesson	L1: Share Sandwiches	L2: Share More Sandwiches	L3: Interpret Equations	L4: Division Situations	L5: Relate Division and Fractions
Ar Math Content Standards	5.NF.B.3	5.NF.B.3	5.NF.B.3	5.NF.B.3	5.NF.B.3
AR Math Practice Standards	MP. 1, 2, 4	MP. 2, 6, 7	MP. 1, 3, 7	MP. 2, 7	MP. 1, 3, 7
Vocabulary Focus					
Lesson Materials/ Resources	L1- Slide Deck L.2.1- Student Tasks Desmos	L2: Slide Deck L2- Student Tasks Desmos Card Sort	L3: Slide Deck L3- Student Task Desmos	L4: Slide Deck L4- Student Task Desmos	L5: Slide Deck L5- Student Task Desmos
Assessment	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos Practice Problems Checkpoint Assessment	Cool Down- Desmos Practice Problems- Desmos Practice Problems-PDF Checkpoint Assessment- Desmos
Suggested Centers/ Materials/ Resources	Rolling for Fractions, Stage 2, Compare, Stage 4	Rolling for Fractions, Stage 2 and Stage 3, Compare, Stage 4	Rolling for Fractions, Stage 2, Compare, Stage 4	Rolling for Fractions, Stage 2, Target Measurement, Stage 4	Rolling for Fractions, Stage 2, Target Measurement, Stage 4

Grade 5 Unit 2 Section B Fractions as Quotients and Fraction Multiplication Lessons 6-8

Goals:
- Students develop an understanding of fractions as the division of the numerator by the denominator, that is a ÷ b = a/b, and solve problems that involve the multiplication of a whole number and a fraction, including fractions greater than 1.
- Connect division to multiplication of a whole number by a non-unit fraction.
- Connect division to multiplication of a whole number by a unit fraction.
- Explore the relationship between multiplication and division.
- 5th Grade Unit 2- I Can Statements
- 5th Grade- Unit 2 Centers

IM Lesson	L6: Relate Division and Multiplication	L7: Divide to Multiply Unit Fractions	L8: Divide to Multiply Non-Unit Fractions
Ar Math Content Standards	4.NF.B.4, 5.NF.B.3, 5.OA.A.2	5.NF.B.3, 5.NF.B.4	5.NF.B.3, 5.NF.B.4, 5.OA.A.2
AR Math Practice Standards	**MP. 1, 2, 3, 4, 7**	**MP. 2, 3**	**MP. 1, 8**
Vocabulary Focus			
Lesson Materials/ Resources	L6- Slide Deck L.6- Student Tasks Desmos	L7: Slide Deck L7- Student Tasks Desmos	L8: Slide Deck L8- Student Task Desmos
Assessment	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos Practice Problems- PDF Practice Problems- Desmos Checkpoint Assessment- Desmos
Suggested Centers/ Materials/ Resources	Target Measurement, Stage 4, Compare, Stage 5	Target Measurement, Stage 5, Compare, Stage 5	Target Measurement, Stage 4, Compare, Stage 5

Grade 5 Unit 2 Section C Fractions as Quotients and Fraction Multiplication Lessons 9-13

Goals:
- Students develop an understanding of fractions as the division of the numerator by the denominator, that is a ÷ b = a/b, and solve problems that involve the multiplication of a whole number and a fraction, including fractions greater than 1.
- Find the area of a rectangle when one side length is a whole number and the other side length is a fraction or mixed number.
- Represent and solve problems involving the multiplication of a whole number by a fraction or mixed number.
- Write, interpret and evaluate numerical expressions that represent multiplication of a whole number by a fraction or mixed number.
- 5th Grade Unit 2- I Can Statements
- 5th Grade- Unit 2 Centers

IM Lesson	L9: Relate Area to Multiplication	L10: Fractional Side Lengths Less Than 1	L11: Fractional Side Lengths Greater than 1	L12: Decompose Rectangles	L13: Area and Properties of Operations
Ar Math Content Standards	5.NF.B.4	5.NF.B.3, 5.NF.B.4	5.NF.B.3, 5.NF.B.4	5.NF.B.4	5.NF.B.4, 5.OA.A.1
AR Math Practice Standards	MP. 1, 5, 6, 7	MP. 1, 2	MP. 2, 3, 7	MP. 1, 6	
Vocabulary Focus					
Lesson Materials/ Resources	L8- Slide Deck L.8- Student Tasks Desmos	L9: Slide Deck L9- Student Tasks Desmos	L10: Slide Deck L10- Student Task Desmos	L11: Slide Deck L11- Student Task Desmos	L12: Slide Deck L12- Student Task Desmos
Assessment	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos Practice Problems Checkpoint Assessment	Checkpoint Assessment End-of-Unit Assessment
EndSuggested Centers/ Materials/ Resources	5 in a Row: Multiplication, Stage 4, Capture Squares, Stage 7	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 1	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 1	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 2	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 2

Grade 5 Unit 2 Section C Fractions as Quotients and Fraction Multiplication Lessons 14-17

Goals:
- Students develop an understanding of fractions as the division of the numerator by the denominator, that is a ÷ b = a/b, and solve problems that involve the multiplication of a whole number and a fraction, including fractions greater than 1.
- Find the area of a rectangle when one side length is a whole number and the other side length is a fraction or mixed number.
- Represent and solve problems involving the multiplication of a whole number by a fraction or mixed number.
- Write, interpret and evaluate numerical expressions that represent multiplication of a whole number by a fraction or mixed number.
- 5th Grade Unit 2- I Can Statements
- 5th Grade- Unit 2 Centers

IM Lesson	L8: Figures Made of Prisms	L9: Measure Figures Made From Prisms	L10: Represent Volume with Expressions	L11: All Kinds of Prisms	L12: Lots and Lots of Garbage *Optional
Ar Math Content Standards	5.MD.C.5	5.MD.C.5, 5.OA.A.2	5.MD.C.5, 5.OA.A.1, 5.OA.A.2	5.MD.C, 5.MD.C.5	5.MD.C.5
AR Math Practice Standards	MP. 1, 5, 6, 7	MP. 1, 2	MP. 2, 3, 7	MP. 1, 6	
Vocabulary Focus					
Lesson Materials/ Resources	L8- Slide Deck L.8- Student Tasks Desmos	L9: Slide Deck L9- Student Tasks Desmos	L10: Slide Deck L10- Student Task Desmos	L11: Slide Deck L11- Student Task Desmos	L12: Slide Deck L12- Student Task Desmos
Assessment	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos	Cool Down- Desmos Practice Problems Checkpoint Assessment	Checkpoint Assessment End-of-Unit Assessment
EndSuggested Centers/ Materials/ Resources	5 in a Row: Multiplication, Stage 4, Capture Squares, Stage 7	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 1	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 1	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 2	5 in a Row: Multiplication, Stage 4, Rolling for Fractions, Stage 2