

Grade 5 Unit 6 - More Decimal and Fraction Operations

Section A - Lessons 1-7

Unit Goal:

- Students solve multi-step problems involving measurement conversions, line plots, and fraction operations, including addition and subtraction of fractions with unlike denominators. They also explain patterns when multiplying and dividing by powers of 10 and interpret multiplication as scaling by comparing products with factors.
- [Grade 5 Unit 6 I Can Statements](#)
- [Grade 5 Unit 6 Centers](#)
- [Unit 6 Slide Deck \(Made by Britnee Wright- NOT UPDATED to Version 1\)](#)

Section A Goals:

- Explain patterns when multiplying and dividing by powers of 10.
- Solve multi-step problems involving measurement conversions.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L1: Place Value Patterns	L2: Powers of 10	L3: Metric Conversions and Multiplication by Powers of ten	L4: Metric Conversions and Division by Powers of ten	L5: Multi-Step Conversion Problems: Metric Length	L6: Multi-Step Conversion Problems: Metric Liquid Volume	L7: Multi-Step Conversion Problems: Customary Length
Ar Math Content Standards	5.NBT.A.1, 5.NBT.A.2	5.NBT.A.1, 5.NBT.A.2	5.MD.A.1, 5.NBT.A.2	5.MD.A.1, 5.NBT.A.2	5.MD.A.1, 5.NBT.A.1	5.MD.A.1, 5.NBT.A.1, 5.NBT.A.2	5.MD.A.1
AR Math Practice Standards	MP7	MP 4, 7, 8	MP. 7	MP. 7, 8	MP. 2, 6	MP. 2, 6	MP. 3
Accessibility Supports	Representation, MLR7	Engagement, MLR2	Representation, MLR8	Representation,	Engagement, MLR1	Engagement, MLR1	Engagement, MLR8
Vocabulary Focus		Power of ten					
Lesson Resources	L1 - Slide Deck L1 - Student Tasks* Chart paper markers/crayons	L2 - Slide Deck L2 - Student Tasks*	L3 - Slide Deck L3 - Student Tasks* Meter sticks	L4 - Slide Deck L4 - Student Tasks*	L5 - Slide Deck L5 - Student Tasks* Meter sticks	L6 - Slide Deck L6 - Student Tasks*	L7 - Slide Deck L7 - Student Tasks* Yard sticks Customary Measurement Card Sort Activity 1: Create a set of cards for each group of 2 Activity 2:

							Before the lesson, figure out a location that students would be familiar with that is about 1 mile away from the school. You will share this location in the launch to help students understand how far 1 mile is.
Assessment	Cool Down* Pre-Unit Practice Problems	Cool Down*	Cool Down*	Cool Down*	Cool Down*	Cool Down*	Section A Practice Problems Section A Checkpoint
Suggested Centers/ Materials/ Resources	Number Puzzles: Multiplication and Division (Stage 2) Supporting Five in a Row: Multiplication (Stage 3) Supporting	Number Puzzles: Multiplication and Division (Stage 2) Supporting Five in a Row: Multiplication (Stage 3) Supporting	Number Puzzles: Multiplication and Division (Stage 2) Supporting Five in a Row: Multiplication (Stage 3) Supporting	Would You Rather? (Stage 2) Supporting Compare (Stage 5) Supporting	Would You Rather? (Stage 2) Supporting Compare (Stage 5) Supporting	Would You Rather? (Stage 2) Supporting Compare (Stage 5) Supporting	Would You Rather? (Stage 2) Supporting Compare (Stage 5) Supporting

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Section B - Lessons 8-15

Goals:

- Add and subtract fractions with unlike denominators.
- Create line plots to display fractional measurements data, and use the information to solve problems.
- Solve problems involving addition and subtraction of fractions.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L8: Add and Subtract Fractions	L9: Use Equivalent Expressions	L10: All Sorts of Denominators	L11: Different Ways to Subtract	L12: Solve Problems	L13: Put It All Together: Add and Subtract Fractions
Ar Math Content Standards	5.NF.A.1	5.NF.A.1, 5.NF.A.2	5.NF.A.1	5.NF.A.1	5.NF.A.1, 5.NF.A.2	5.NF.A.1
AR Math Practice Standards	MP. 1, 3	MP. 7	MP. 3, 7, 8	MP. 7	MP. 2, 6	MP. 3
Accessibility Supports	Action and Expression, MLR 8	Action and Expression, MLR 8	Representation, MLR8	Action and Expression	Representation, MLR6	Engagement, MLR8
Vocabulary Focus						
Lesson Resources	L8 - Slide Deck L8 - Student Tasks* Fraction Add and Subtract Sort Activity 1: Create a set of cards for each group of 2	L9 - Slide Deck L9 - Student Tasks*	L10 - Slide Deck L10 - Student Tasks*	L11 - Slide Deck L11 - Student Tasks*	L12 - Slide Deck L12 - Student Tasks*	L13 - Slide Deck L13- Student Tasks*
Assessment	Cool Down*	Cool Down*	Cool Down*	Cool Down*	Cool Down*	Cool Down*
Suggested Centers/ Materials/ Resources	Would You Rather? (Stage 2) Supporting Compare (Stage 6) Supporting	Would You Rather? (Stage 2) Supporting Compare (Stage 6) Supporting	How Close? (Stage 9) Addressing Compare (Stage 6) Supporting	How Close? (Stage 9) Addressing Creating Line Plots (Stage 3) Supporting	How Close? (Stage 9) Addressing Creating Line Plots (Stage 3) Supporting	How Close? (Stage 9) Addressing

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Section C - Lessons 16-21

Goals:

- Interpret multiplication as scaling (resizing)

- Make generalizations about multiplying a whole number by a fraction greater than, less than and equal to 1.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L16: Compare Products	L17: Interpret Diagrams	L18: Compare Without Multiplying	L19: Compare to 1	L20: Will it Always Work? *Optional Lesson*
Ar Math Content Standards	5.NF.B.5	5.NF.B.5	5.NF.B.5	5.NF.B.5	5.NF.B.5, 5.OA.A
AR Math Practice Standards	MP. 1, 3	MP. 2, 7	MP. 7	MP. 8	MP. 6
Accessibility Supports	Action and Expression	Representation, MLR7	Representation, MLR7	Engagement, MLR8	Engagement, MLR2
Vocabulary Focus					
Lesson Resources	L16 - Slide Deck L16 - Student Tasks*	L17 - Slide Deck L17 - Student Tasks*	L18 - Slide Deck L18 - Student Tasks*	L19 - Slide Deck L19 - Student Tasks*	L20 - Slide Deck L20 - Student Tasks*
Assessment	Cool Down*	Cool Down*	Cool Down*	Cool Down*	Cool Down*
Suggested Centers/ Materials/ Resources	Creating Line Plots (Stage 4) Addressing Rectangle Rumble (Stage 4) Supporting	Rectangle Rumble (Stage 4) Addressing Rolling for Fractions (Stage 4) Supporting	Rectangle Rumble (Stage 4) Addressing Rolling for Fractions (Stage 4) Supporting	Rectangle Rumble (Stage 4) Addressing Rolling for Fractions (Stage 4) Supporting	Rectangle Rumble (Stage 4) Addressing Rolling for Fractions (Stage 4) Supporting

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