

IM K-5 MATH™ by Kendall Hunt				Virtual Manipulatives			
Grade 5				Isometric grid Connecting Cubes			
UNIT 1							
Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.1.1	Materials to Gather Connecting cube Materials to Copy Isometric Dot Paper Standard	Activity 2: Each group of 2 needs 24 connecting cubes. Have copies of centimeter dot paper available for students who would like to try drawing their objects.	Can You Build It? (3–5), Stage 2: Multiple Rectangles (Supporting) Can You Build It? (3–5), Stage 3: Rectangular Prisms (Addressing) Capture Squares (1–3), Stage 7: Multiply with 6–9 (Supporting)	BLM L1	MLR2	Which One Doesn't Belong?	Preparation Notes
5.1.2	Materials to Gather	Activity 1:	Can You Build It? (3–5), Stage 3:			Which One Doesn't Belong?	Preparation Notes

	Connecting cubes	Each group of 2 needs 24 connecting cubes. Activity 2: Each group of 2 needs 16-24 connecting cubes.	Rectangular Prisms (Addressing) Can You Build It? (3-5), Stage 2: Multiple Rectangles (Supporting) Capture Squares (1-3), Stage 7: Multiply with 6-9 (Supporting)				
5.1.3	Materials to Gather Connecting cubes Materials to Copy Card Sort Rectangular Prism Cards	Activity 1: Create a set of cards from the blackline master for each group of 4. Each group of 2 needs 48 connecting cubes. Activity 2: Give students access to connecting cubes.	Can You Build It? (3-5), Stage 3: Rectangular Prisms (Addressing) Five in a Row: Multiplication (3-5), Stage 3: Two-digit Factors (Supporting)	BLM L3	MLR8	Number Talk	Preparation Notes
5.1.4	Materials to Gather Connecting cubes	Activity 1:	Can You Build It? (3-5), Stage 3:		MLR7	Estimation Exploration	Preparation Notes

		<p>Have connecting cubes available for students who need them.</p> <p>Activity 2:</p> <p>Have connecting cubes available for students who need them.</p>	<p>Rectangular Prisms (Addressing)</p> <p>Five in a Row: Multiplication (3–5), Stage 3: Two-digit Factors (Supporting)</p>				
5.1.5	Materials to Gather Connecting cubes Materials from a previous activity	<p>Activity 1:</p> <p>Have connecting cubes available for students who need them.</p> <p>Activity 2:</p> <p>Have connecting cubes available for students who need them.</p>	<p>Can You Build It? (3–5), Stage 3: Rectangular Prisms (Addressing)</p> <p>Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing)</p>		MLR2	Notice and Wonder	Preparation Notes
5.1.6	Materials to Gather Connecting cubes	<p>Activity 1:</p> <p>Create a set of cards from the</p>	<p>Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing)</p>	BLM L6	MLR8	True or False	Preparation Notes

	Materials to Copy Matching Prisms and Expressions	blackline master for each group of 2. Have connecting cubes available for students who need them.	Capture Squares (1– 3), Stage 7: Multiply with 6–9 (Supporting)				
5.1.7	Materials to Gather Rulers (centimeters) Rulers (inches) Yardsticks Materials to Copy Info Gap Volume Cards		Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing) Capture Squares (1– 3), Stage 7: Multiply with 6–9 (Supporting)	BLM L7		Notice and Wonder	Preparation Notes
5.1.8	Materials to Gather Connecting cubes	Activity 1: Each group of 2 needs at least 30 connecting cubes.	Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing) Capture Squares (1– 3), Stage 7: Multiply with 6–9 (Supporting)		MLR7	Which One Doesn't Belong?	Preparation Notes
5.1.9	Materials to Copy Isometric Dot Paper Standard		Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing)	BLM L9	MLR7	Number Talk	Preparation Notes

			Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Supporting)				
5.1.10			Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing) Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Supporting)		MLR8	Notice and Wonder	Preparation Notes
5.1.11			Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing) Rolling for Fractions (3–5), Stage 2: Multiply a Fraction by a Whole Number (Supporting)		MLR6	Which One Doesn't Belong?	Preparation Notes
5.1.12	Materials to Gather Connecting cubes Patty paper Tools for creating a visual display	Activity 1: Each group of 2 needs at least 20 connecting cubes.	Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Addressing) Rolling for Fractions (3–5), Stage 2: Multiply		MLR7	Notice and Wonder	Preparation Notes

			a Fraction by a Whole Number (Supporting)				
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IM K-5 MATH™ by Kendall Hunt				Virtual Manipulatives			
Grade 5							
UNIT 2							
Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.2.1			Rolling for Fractions (3–5), Stage 2: Multiply a Fraction by a Whole Number (Supporting) Compare (1–5), Stage 4: Divide within 100 (Supporting)		MLR1	Which One Doesn't Belong?	Preparation Notes
5.2.2	Materials to Copy Sandwich Match	Activity 2:	Rolling for Fractions (3–5), Stage 3: Divide	BLM L2	MLR8	Estimation Exploration	Preparation Notes

		Create a set of cards from the blackline master for each group of 2.	Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 2: Multiply a Fraction by a Whole Number (Supporting) Compare (1–5), Stage 4: Divide within 100 (Supporting)				
5.2.3			Rolling for Fractions (3–5), Stage 3: Divide Whole Numbers (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting)		MLR2	What Do You Know About ____?	Preparation Notes
5.2.4			Rolling for Fractions (3–5), Stage 3: Divide Whole Numbers (Addressing) Target Measurements (2–5), Stage 4: Degrees (Supporting)			Number Talk	Preparation Notes
5.2.5			Rolling for Fractions (3–5), Stage 3: Divide			True or False	Preparation Notes

			Whole Numbers (Addressing) Target Measurements (2–5), Stage 4: Degrees (Supporting)				
5.2.6			Target Measurements (2–5), Stage 4: Degrees (Supporting) Compare (1–5), Stage 5: Fractions (Supporting)		MLR1	Number Talk	Preparation Notes
5.2.7	Materials to Copy Match the Situation	Activity 2: Create a set of cards from the blackline master for each group of 2.	Target Measurements (2–5), Stage 5: Fractions of Angles (Addressing) Compare (1–5), Stage 5: Fractions (Supporting)	BLM L7	MLR8	Estimation Exploration	Preparation Notes
5.2.8	Materials to Gather Materials from a previous lesson	Gather the chart from the synthesis of a previous lesson that describes what students know and wonder about the relationship	Target Measurements (2–5), Stage 5: Fractions of Angles (Addressing) Compare (1–5), Stage 5: Fractions (Supporting)			True or False	Preparation Notes

		between multiplication and division.					
5.2.9	Materials to Copy Grid Paper 5		Target Measurements (2–5), Stage 5: Fractions of Angles (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)	BLM L9	MLR8	Which One Doesn't Belong?	Preparation Notes
5.2.10			Target Measurements (2–5), Stage 5: Fractions of Angles (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)		MLR2	Estimation Exploration	Preparation Notes
5.2.11			How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)		MLR8	True or False	Preparation Notes
5.2.12			How Close? (1–5), Stage 7: Multiply		MLR1	Number Talk	Preparation Notes

			Fractions and Whole Numbers to 5 (Addressing) Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Supporting)				
5.2.13	Materials to Copy Card Sort: Diagrams and Expressions	Activity 1: Create a set of cards from the blackline master for each group of 2.	How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Addressing) Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Supporting)	BLM L13	MLR8	Number Talk	Preparation Notes
5.2.14	Materials to Copy Info Gap: Area	Activity 1: Create a set of cards from the blackline master for each group of 2.	Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Addressing) Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Supporting)	BLM L14		Number Talk	Preparation Notes
5.2.15			Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Addressing) Can You Build It? (3–5), Stage 2: Multiple		MLR7	Number Talk	Preparation Notes

			Rectangles (Supporting)				
5.2.16			Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Addressing) Can You Build It? (3– 5), Stage 2: Multiple Rectangles (Supporting)		MLR5	Notice and Wonder	Preparation Notes
5.2.17	Materials to Gather Colored paper Glue Rulers Scissors	Activity 1: Each student needs a few sheets of the same colored paper. Each group of 4 needs a ruler, scissors, glue and one large piece of poster paper.	Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Addressing) Can You Build It? (3– 5), Stage 2: Multiple Rectangles (Supporting)			Notice and Wonder	Preparation Notes

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Grade 5							
UNIT 3							
Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.3.1			Rolling for Fractions (3–5), Stage 2: Multiply a Fraction by a Whole Number (Supporting) Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Supporting)		MLR2	Notice and Wonder	Preparation Notes
5.3.2			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Rolling for Fractions (3–5), Stage 2: Multiply a Fraction by a Whole Number (Supporting)			Which One Doesn't Belong?	Preparation Notes

			Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Supporting)				
5.3.3			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Supporting)			Estimation Exploration	Preparation Notes
5.3.4			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Five in a Row: Multiplication (3–5), Stage 4: Three Factors (Supporting)		MLR8	Number Talk	Preparation Notes
5.3.5			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)		MLR8	Estimation Exploration	Preparation Notes

5.3.6			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)			Which One Doesn't Belong?	Preparation Notes
5.3.7			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)		MLR8	Notice and Wonder	Preparation Notes
5.3.8			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)		MLR7	Number Talk	Preparation Notes

5.3.9	Materials to Gather Colored pencils or crayons Paper Rulers	Activity 2: Each student needs a ruler, a set of colored pencils or crayons, and a piece of paper.	Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)			Notice and Wonder	Preparation Notes
5.3.10	Materials to Gather Tools for creating a visual display		Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)			Number Talk	Preparation Notes
5.3.11	Materials to Gather Tools for creating a visual display		Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing)			Number Talk	Preparation Notes

			Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)				
5.3.12			Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)			Estimation Exploration	Preparation Notes
5.3.13	Materials to Gather Construction paper	If students will be making My Way quilts, create 2 foot long pieces of construction paper in red, yellow, and green.	Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 7: Multiply			Notice and Wonder	Preparation Notes

			Fractions and Whole Numbers to 5 (Supporting)				
5.3.14			Compare (1–5), Stage 8: Divide Fractions and Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 5: Divide Unit Fractions and Whole Numbers (Addressing)			Number Talk	Preparation Notes
5.3.15	Materials to Gather Materials from a previous lesson Materials to Copy Fraction Division Problem Sort	Gather poster from previous lesson that explains what students know and wonder about division of a unit fraction by a whole number. Activity 1: Create a set of cards from the blackline master for each group of 2.	Compare (1–5), Stage 8: Divide Fractions and Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 5: Divide Unit Fractions and Whole Numbers (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)	BLM L15	MLR8	Number Talk	Preparation Notes

5.3.16			Compare (1–5), Stage 8: Divide Fractions and Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 5: Divide Unit Fractions and Whole Numbers (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)			Estimation Exploration	Preparation Notes
5.3.17	Materials to Copy Info Gap: Tiles	Activity 1: Create a set of cards from the blackline master for each group of 2.	Compare (1–5), Stage 8: Divide Fractions and Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 5: Divide Unit Fractions and Whole Numbers (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)	BLM L17		Number Talk	Preparation Notes
5.3.18			Compare (1–5), Stage 8: Divide Fractions and		MLR1	Number Talk	Preparation Notes

			Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 5: Divide Unit Fractions and Whole Numbers (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)				
5.3.19			Compare (1–5), Stage 8: Divide Fractions and Whole Numbers (Addressing) Rolling for Fractions (3–5), Stage 5: Divide Unit Fractions and Whole Numbers (Addressing) How Close? (1–5), Stage 6: Multiply to 3,000 (Supporting)		MLR8	Estimation Exploration	Preparation Notes
5.3.20			How Close? (1–5), Stage 6: Multiply to 3,000 (Addressing) Rolling for Fractions (3–5), Stage 5: Divide		MLR8	Estimation Exploration	Preparation Notes

			Unit Fractions and Whole Numbers (Addressing)				
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IM K-5 MATH™ by Kendall Hunt Grade 5 UNIT 4				Virtual Manipulatives			
Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.4.1			Number Puzzles: Multiplication and Division (4–5), Stage 1: Two-digit Factors (Supporting)			Number Talk	Preparation Notes
5.4.2			Number Puzzles: Multiplication and Division (4–5), Stage		MLR8	Which One Doesn't Belong?	Preparation Notes

			1: Two-digit Factors (Supporting)				
5.4.3	Materials to Copy Partial Product Expressions	Activity 1: Create a set of cards from the blackline master for each group of 2.	Number Puzzles: Multiplication and Division (4–5), Stage 1: Two-digit Factors (Supporting)	BLM L3	MLR8	Which One Doesn't Belong?	Preparation Notes
5.4.4			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)			Number Talk	Preparation Notes
5.4.5			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)		MLR8	Number Talk	Preparation Notes
5.4.6			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)		MLR8	Number Talk	Preparation Notes
5.4.7	Materials to Copy Greatest Product Number Cards (0–10)		Number Puzzles: Multiplication and Division (4–5), Stage	BLM L7	MLR8	Notice and Wonder	Preparation Notes

			2: Multi-digit Factors (Addressing)				
5.4.8	Materials to Gather Materials from a previous lesson Materials from previous centers	Activity 1: Gather materials from: Greatest Product Number Puzzles , Stage 2	Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)			Number Talk	Preparation Notes
5.4.9			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)		MLR1	Notice and Wonder	Preparation Notes
5.4.10			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing) Watch Your Remainder (4–5), Stage 1: One-digit Divisors (Supporting)		MLR8	How Many Do You See?	Preparation Notes
5.4.11	Materials to Copy Partial Quotient Expressions	Activity 1: Create a set of cards from the	Number Puzzles: Multiplication and Division (4–5), Stage	BLM L11		Notice and Wonder	Preparation Notes

		blackline master for each group of 2.	2: Multi-digit Factors (Addressing) Watch Your Remainder (4–5), Stage 1: One-digit Divisors (Supporting)				
5.4.12			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing) Watch Your Remainder (4–5), Stage 1: One-digit Divisors (Supporting)			Notice and Wonder	Preparation Notes
5.4.13			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)		MLR7	Number Talk	Preparation Notes
5.4.15			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Addressing)		MLR8	Which One Doesn't Belong?	Preparation Notes
5.4.15			Number Puzzles: Multiplication and		MLR8	Estimation Exploration	Preparation Notes

			Division (4–5), Stage 2: Multi-digit Factors (Addressing)				
5.4.16			Mystery Number (1–4), Stage 6: Decimals (Supporting)		MLR8	Notice and Wonder	Preparation Notes
5.4.17			Mystery Number (1–4), Stage 6: Decimals (Supporting)		MLR	What Do You Know About ____?	Preparation Notes
5.4.18			Mystery Number (1–4), Stage 6: Decimals (Supporting)		MLR2	Estimation Exploration	Preparation Notes
5.4.19	Materials to Gather Metersticks		Mystery Number (1–4), Stage 6: Decimals (Supporting)		MLR8	Notice and Wonder	Preparation Notes
5.4.20		Activity 1: Gather a small recycle bin or trash can and a large recycle bin or trash can.	Mystery Number (1–4), Stage 6: Decimals (Supporting)		MLR1	Number Talk	Preparation Notes
5.4.21					MLR7	Notice and Wonder	Preparation Notes

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Grade 5

UNIT 5

Virtual Manipulatives

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Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.5.1	Materials to Gather Chart paper Colored pencils, crayons, or markers Materials to Copy Small Grids		Mystery Number (1–4), Stage 5: Six-digit Numbers (Supporting) Greatest of Them All (1–5), Stage 3: Multi-digit Numbers (Supporting)	BLM L1	MLR7	Estimation Exploration	Preparation Notes
5.5.2			Mystery Number (1–4), Stage 5: Six-digit Numbers (Supporting) Get Your Numbers in Order (1–5), Stage 4:		MLR2	Estimation Exploration	Preparation Notes

			Denominators 2, 3, 4, 5, 6, 8, 10, 12, or 100 (Supporting)				
5.5.3			Mystery Number (1–4), Stage 5: Six-digit Numbers (Supporting) Get Your Numbers in Order (1–5), Stage 4: Denominators 2, 3, 4, 5, 6, 8, 10, 12, or 100 (Supporting)			Which One Doesn't Belong?	Preparation Notes
5.5.4		Activity 1: If needed, give students access to the hundredths grid.	Tic Tac Round (3–5), Stage 3: Decimals (Addressing) Greatest of Them All (1–5), Stage 4: Decimals (Addressing) Jump the Line (2–5), Stage 2: Add and Subtract Tenths and Hundredths (Supporting)		MLR1	Notice and Wonder	Preparation Notes
5.5.5	Materials to Copy Small Grids		Mystery Number (1–4), Stage 6: Decimals (Addressing)	BLM L5	MLR8	True or False	Preparation Notes

			Get Your Numbers in Order (1–5), Stage 5: Decimals (Addressing)				
5.5.6			Mystery Number (1–4), Stage 6: Decimals (Addressing) Get Your Numbers in Order (1–5), Stage 5: Decimals (Addressing)		MLR8	Notice and Wonder	Preparation Notes
5.5.7			Mystery Number (1–4), Stage 6: Decimals (Addressing) Get Your Numbers in Order (1–5), Stage 5: Decimals (Addressing)		MLR8	Notice and Wonder	Preparation Notes
5.5.8			Mystery Number (1–4), Stage 6: Decimals (Addressing) Get Your Numbers in Order (1–5), Stage 5: Decimals (Addressing)		MLR8	Estimation Exploration	Preparation Notes
5.5.9			Greatest of Them All (1–5), Stage 4: Decimals (Addressing) Get Your Numbers in Order (1–5), Stage 5: Decimals (Addressing)		MLR1	True or False	Preparation Notes

5.5.10			Tic Tac Round (3–5), Stage 3: Decimals (Addressing) Greatest of Them All (1–5), Stage 4: Decimals (Addressing) Jump the Line (2–5), Stage 2: Add and Subtract Tenths and Hundredths (Supporting)		MLR5	Notice and Wonder	Preparation Notes
5.5.11	Materials to Gather Chart paper Colored pencils, crayons, or markers Number cubes Materials to Copy Target Numbers Stage 8 Recording Sheet	Create a large chart titled “Decimal Addition” to display during the lesson synthesis. Activity 1: Each group of 2 needs a piece of chart paper and colored pencils, markers, or crayons. Activity 2:	Tic Tac Round (3–5), Stage 3: Decimals (Addressing) Greatest of Them All (1–5), Stage 4: Decimals (Addressing) Jump the Line (2–5), Stage 2: Add and Subtract Tenths and Hundredths (Supporting)	BLM L11		How Many Do You See?	Preparation Notes

		Each group of 2 needs 1 number cube.					
5.5.12			Tic Tac Round (3–5), Stage 3: Decimals (Addressing) Greatest of Them All (1–5), Stage 4: Decimals (Addressing) Jump the Line (2–5), Stage 2: Add and Subtract Tenths and Hundredths (Supporting)			Number Talk	Preparation Notes
5.5.13			Jump the Line (2–5), Stage 2: Add and Subtract Tenths and Hundredths (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)			Estimation Exploration	Preparation Notes
5.5.14	Materials to Gather		Jump the Line (2–5), Stage 2: Add and	BLM L14		True or False	Preparation Notes

	Chart paper Colored pencils, crayons, or markers Number cubes Materials to Copy Small Grids Target Numbers Stage 9 Recording Sheet		Subtract Tenths and Hundredths (Supporting) How Close? (1–5), Stage 7: Multiply Fractions and Whole Numbers to 5 (Supporting)				
5.5.15			How Close? (1–5), Stage 8: Add Decimals to 1 (Addressing) Jump the Line (2–5), Stage 3: Add and Subtract Tenths, Hundredths, and Thousandths (Addressing)			Number Talk	Preparation Notes
5.5.16			How Close? (1–5), Stage 8: Add Decimals to 1 (Addressing) Jump the Line (2–5), Stage 3: Add and Subtract Tenths, Hundredths, and			Number Talk	Preparation Notes

			Thousandths (Addressing)				
5.5.17	Materials to Copy Small Grids		Target Numbers (1–5), Stage 8: Add Tenths or Hundredths (Addressing) Target Numbers (1–5), Stage 9: Subtract Tenths or Hundredths (Addressing)	BLM L17		True or False	Preparation Notes
5.5.18			Target Numbers (1–5), Stage 8: Add Tenths or Hundredths (Addressing) Target Numbers (1–5), Stage 9: Subtract Tenths or Hundredths (Addressing)			True or False	Preparation Notes
5.5.19	Materials to Copy Decimal Multiplication Expression Card Sort		Target Numbers (1–5), Stage 8: Add Tenths or Hundredths (Addressing) Target Numbers (1–5), Stage 9: Subtract Tenths or Hundredths (Addressing)	BLM L19		Number Talk	Preparation Notes

5.5.20	Materials to Copy Small Grids		Target Numbers (1–5), Stage 8: Add Tenths or Hundredths (Addressing) Target Numbers (1–5), Stage 9: Subtract Tenths or Hundredths (Addressing)	BLM L20	MLR8	What Do You Know About ____?	Preparation Notes
5.5.21			Compare (1–5), Stage 4: Divide within 100 (Supporting) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)		MLR2	Estimation Exploration	Preparation Notes
5.5.22	Materials to Copy Small Grids		Compare (1–5), Stage 4: Divide within 100 (Supporting) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)	BLM L22		Number Talk	Preparation Notes
5.5.23	Materials to Copy Small Grids		Compare (1–5), Stage 4: Divide within 100 (Supporting) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)	BLM L23		True or False	Preparation Notes

5.5.24	Materials to Copy Small Grids		Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting) Would You Rather? (2–5), Stage 2: Compare to Smaller Units (Supporting)	BLM L24	MLR8	Estimation Exploration	Preparation Notes
5.5.25	Materials to Copy Small Grids		Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting) Would You Rather? (2–5), Stage 2: Compare to Smaller Units (Supporting)	BLM L25	MLR7	Number Talk	Preparation Notes
5.5.26			Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting) Would You Rather? (2–5), Stage 2: Compare to Smaller Units (Supporting)		MLR6	Notice and Wonder	Preparation Notes

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Grade 5

UNIT 6

Virtual Manipulatives

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.6.1	Materials to Gather Tools for creating a visual display		Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Supporting) Five in a Row: Multiplication (3–5), Stage 3: Two-digit Factors (Supporting)			Notice and Wonder	Preparation Notes
5.6.2			Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Supporting)		MLR2	How Many Do You See?	Preparation Notes

			Five in a Row: Multiplication (3–5), Stage 3: Two-digit Factors (Supporting)				
5.6.3	Materials to Gather Metersticks		Number Puzzles: Multiplication and Division (4–5), Stage 2: Multi-digit Factors (Supporting) Five in a Row: Multiplication (3–5), Stage 3: Two-digit Factors (Supporting)		MLR8	Number Talk	Preparation Notes
5.6.4			Would You Rather? (2–5), Stage 2: Compare to Smaller Units (Supporting) Compare (1–5), Stage 5: Fractions (Supporting)			True or False	Preparation Notes
5.6.5	Materials to Gather Metersticks		Would You Rather? (2–5), Stage 2: Compare to Smaller Units (Supporting) Compare (1–5), Stage 5: Fractions (Supporting)		MLR1	True or False	Preparation Notes

5.6.6			Would You Rather? (2–5), Stage 2: Compare to Smaller Units (Supporting) Compare (1–5), Stage 5: Fractions (Supporting)		MLR1	Number Talk	Preparation Notes
5.6.7	Materials to Gather Yardsticks Materials to Copy Customary Measurement Card Sort	Activity 1: Create a set of cards from the blackline master 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	Would You Rather? (2–5), Stage 3: Compare Units in a Given System (Addressing) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)	BLM L7	MLR8	Number Talk	Preparation Notes

		understand how far 1 mile is.					
5.6.8	Materials to Copy Fraction Add and Subtract Sort	Activity 1: Create a set of cards from the blackline master for each group of 2.	Would You Rather? (2–5), Stage 3: Compare Units in a Given System (Addressing) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)	BLM L8	MLR8	Which One Doesn't Belong?	Preparation Notes
5.6.9			Would You Rather? (2–5), Stage 3: Compare Units in a Given System (Addressing) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)		MLR8	True or False	Preparation Notes
5.6.10			How Close? (1–5), Stage 9: Add Fractions to 5 (Addressing) Compare (1–5), Stage 6: Add and Subtract Fractions (Supporting)		MLR8	How Many Do You See?	Preparation Notes
5.6.11			How Close? (1–5), Stage 9: Add Fractions to 5 (Addressing) Creating Line Plots (2–5), Stage 3: Eighth			Number Talk	Preparation Notes

			Inches, Add and Subtract (Supporting)				
5.6.12			How Close? (1–5), Stage 9: Add Fractions to 5 (Addressing) Creating Line Plots (2–5), Stage 3: Eighth Inches, Add and Subtract (Supporting)		MLR6	Estimation Exploration	Preparation Notes
5.6.13			How Close? (1–5), Stage 9: Add Fractions to 5 (Addressing)		MLR8	Number Talk	Preparation Notes
5.6.14	Materials to Gather Paper clips Pencils	Activity 1: Each group of 2 needs 1 paper clip and one pencil.	Creating Line Plots (2–5), Stage 4: Eighth Inches, Add, Subtract, and Multiply (Addressing) Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Supporting)		MLR8	Which One Doesn't Belong?	Preparation Notes
5.6.15	Materials to Copy Info Gap: Picking Fruit	Activity 1: Create a set of cards from the blackline master	Creating Line Plots (2–5), Stage 4: Eighth Inches, Add, Subtract, and Multiply (Addressing)	BLM L15		Number Talk	Preparation Notes

		for each group of 2.	Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Supporting)				
5.6.16			Creating Line Plots (2–5), Stage 4: Eighth Inches, Add, Subtract, and Multiply (Addressing) Rectangle Rumble (3–5), Stage 4: Whole Number and Fraction Factors (Supporting)			True or False	Preparation Notes
5.6.17			Rectangle Rumble (3–5), Stage 5: Fraction Factors (Addressing) Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Supporting)		MLR6	Estimation Exploration	Preparation Notes
5.6.18			Rectangle Rumble (3–5), Stage 5: Fraction Factors (Addressing) Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Supporting)		MLR7	Notice and Wonder	Preparation Notes

5.6.19			Rectangle Rumble (3–5), Stage 5: Fraction Factors (Addressing) Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Supporting)		MLR8	What Do You Know About ____?	Preparation Notes
5.6.20	Materials to Gather Tools for creating a visual display		Rectangle Rumble (3–5), Stage 5: Fraction Factors (Addressing) Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Supporting)		MLR1	True or False	Preparation Notes
5.6.21			Rectangle Rumble (3–5), Stage 5: Fraction Factors (Addressing) Rolling for Fractions (3–5), Stage 4: Multiply Fractions (Supporting)		MLR8	Number Talk	Preparation Notes

IM K-5 MATH™ by Kendall Hunt Grade 5 UNIT 7	Virtual Manipulatives
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Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.7.1	Materials to Copy Can You Draw It Stage 6 Recording Sheet Explore the Coordinate Grid Cards	Activity 1: Create a set of cards from the blackline master for each group of 2.	Can You Draw It? (1–5), Stage 5: Grade 4 Shapes (Supporting) Which One? (K–5), Stage 5: Grade 4 Shapes (Supporting)	BLM L1		Notice and Wonder	Preparation Notes
5.7.2	Materials to Copy What's the Point	Activity 1: Create a set of cards from the blackline master for each group of 2.	Can You Draw It? (1–5), Stage 5: Grade 4 Shapes (Supporting) Which One? (K–5), Stage 5: Grade 4 Shapes (Supporting)	BLM L2		Notice and Wonder	Preparation Notes
5.7.3			Can You Draw It? (1–5), Stage 6: Shapes on the Coordinate Grid (Addressing) Which One? (K–5), Stage 6: Shapes on the Coordinate Grid (Addressing)		MLR8	Notice and Wonder	Preparation Notes

			How Are They the Same? (1–5), Stage 4: Grade 4 Shapes (Supporting)				
5.7.4	<p>Materials to Gather</p> <p>Dry erase markers</p> <p>Sheet protectors</p> <p>Materials to Copy</p> <p>Guess Which One</p> <p>Card Sort</p> <p>Quadrilaterals (Grade 5)</p>	<p>Activity 1:</p> <p>Consider giving each student a sheet protector and a dry-erase marker so that students can easily reuse the blackline master for multiple rounds of the game.</p> <p>Activity 2:</p> <p>Create a set of cards from the blackline master for each group of 2.</p>	<p>Can You Draw It? (1–5), Stage 6: Shapes on the Coordinate Grid (Addressing)</p> <p>Which One? (K–5), Stage 6: Shapes on the Coordinate Grid (Addressing)</p> <p>How Are They the Same? (1–5), Stage 4: Grade 4 Shapes (Supporting)</p>	BLM L4		What Do You Know About ____?	Preparation Notes
5.7.5			Can You Draw It? (1–5), Stage 6: Shapes on the Coordinate Grid (Addressing)		MLR8	What Do You Know About ____?	Preparation Notes

			Which One? (K–5), Stage 6: Shapes on the Coordinate Grid (Addressing) How Are They the Same? (1–5), Stage 4: Grade 4 Shapes (Supporting)				
5.7.6	Materials to Gather Materials from a previous lesson Toothpicks	Gather diagram from a previous lesson. Activity 1: Each group of 2 needs 6 toothpicks.	Which One? (K–5), Stage 7: Grade 5 Shapes (Addressing) How Are They the Same? (1–5), Stage 5: Grade 5 Shapes (Addressing) How Are They the Same? (1–5), Stage 4: Grade 4 Shapes (Supporting)			Notice and Wonder	Preparation Notes
5.7.7	Materials to Copy Quadrilateral Clues	Activity 1: Create a set of cards from the blackline master for each group of 2.	Which One? (K–5), Stage 7: Grade 5 Shapes (Addressing) How Are They the Same? (1–5), Stage 5: Grade 5 Shapes (Addressing)	BLM L7	MLR8	What Do You Know About ____?	Preparation Notes

		Gather diagram from a previous lesson.	How Are They the Same? (1–5), Stage 4: Grade 4 Shapes (Supporting)				
5.7.8	Materials to Copy Card Sort Triangles (Grade 5)	Activity 1: Create a set of cards from the blackline master for each group of 2. Activity 2: Gather materials from previous activity: Triangle Cards	Which One? (K–5), Stage 7: Grade 5 Shapes (Addressing) How Are They the Same? (1–5), Stage 5: Grade 5 Shapes (Addressing) How Are They the Same? (1–5), Stage 4: Grade 4 Shapes (Supporting)	BLM L8	MLR7	Estimation Exploration	Preparation Notes
5.7.9			Can You Draw It? (1–5), Stage 7: Grade 5 Shapes (Addressing) Picture Books (K–5), Stage 3: Find Shapes (Addressing) Can You Draw It? (1–5), Stage 4: Area and Perimeter (Supporting)			Choral Count	Preparation Notes

5.7.10			Can You Draw It? (1–5), Stage 7: Grade 5 Shapes (Addressing) Picture Books (K–5), Stage 3: Find Shapes (Addressing) Can You Draw It? (1–5), Stage 4: Area and Perimeter (Supporting)			True or False	Preparation Notes
5.7.11			Can You Draw It? (1–5), Stage 7: Grade 5 Shapes (Addressing) Picture Books (K–5), Stage 3: Find Shapes (Addressing) Can You Draw It? (1–5), Stage 4: Area and Perimeter (Supporting)		MLR8	Notice and Wonder	Preparation Notes
5.7.12	Materials to Gather Coins	Activity 1: Gather pennies, nickels, dimes, and quarters to show students during the launch.	Can You Draw It? (1–5), Stage 7: Grade 5 Shapes (Addressing) Picture Books (K–5), Stage 3: Find Shapes (Addressing)			True or False	Preparation Notes

5.7.13			Can You Draw It? (1–5), Stage 7: Grade 5 Shapes (Addressing) Picture Books (K–5), Stage 3: Find Shapes (Addressing)		MLR8	Estimation Exploration	Preparation Notes
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IM K-5 MATH™ by Kendall Hunt				Virtual Manipulatives			
Grade 5							
UNIT 8				Dot Cube			
Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
5.8.1				BLM L1	MLR8	Notice and Wonder	Preparation Notes
5.8.2				BLM L2	MLR1	Estimation Exploration	Preparation Notes
5.8.3				BLM L3	MLR7	Number Talk	Preparation Notes

5.8.4	Materials to Gather Tools for creating a visual display			BLM L4		Notice and Wonder	Preparation Notes
5.8.5				BLM L5	MLR8	Estimation Exploration	Preparation Notes
5.8.6				BLM L6	MLR7	Estimation Exploration	Preparation Notes
5.8.7	Materials to Gather Rulers Yardsticks			BLM L7	MLR7	Notice and Wonder	Preparation Notes
5.8.8				BLM L8	MLR8	Notice and Wonder	Preparation Notes
5.8.9				BLM L9	MLR5	Notice and Wonder	Preparation Notes
5.8.10	Materials to Gather Paper clips	Activity 1: Each group of 2 needs 1 paper clip for their spinner. Activity 2: Each group of 2 needs a paper clip.		BLM L10	MLR8	Number Talk	Preparation Notes

5.8.11	Materials to Gather Paper clips	Activity 1: Each group of 2 needs a paper clip.		BLM L11	MLR8	Number Talk	Preparation Notes
5.8.12	Materials to Gather Number cubes Paper clips	Activity 1: Each group of 2 needs a number cube. Activity 2: Each group of 2 needs a paper clip.		BLM L12	MLR8	True or False	Preparation Notes
5.8.13	Materials to Gather Paper clips	Activity 1: Each group of 2 needs a paper clip. Activity 2: Each group of 2 needs a paper clip.		BLM L13	MLR8	Number Talk	Preparation Notes
5.8.14	Materials to Gather Chart paper	Activity 1: Gather books, magazines, or other print		BLM L14	MLR8	Notice and Wonder	Preparation Notes

	Colored pencils, crayons, or markers	materials with images for each group of 2 students. Activity 3: Each group of 2 needs a few books, magazines, or other print materials with images.					
5.8.15	Materials to Gather Chart paper Colored pencils, crayons, or markers			BLM L15	MLR8	Estimation Exploration	Preparation Notes
5.8.16				BLM L16	MLR8	Number Talk	Preparation Notes
5.8.17				BLM L17	MLR8	True or False	Preparation Notes
5.8.18	Materials to Copy Shape Cards for WODB Design	Activity 1: Create a set of cards from the blackline master		BLM L18	MLR8	Which One Doesn't Belong?	Preparation Notes

		for each group of 2.					
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