IM K-5 MATH™ by Kendall Hunt

Grade 3

UNIT 1

Virtual Manipulatives

Counters
Connecting Cubes

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
3.1.1			Sort and Display (1–3), Stage 2: Picture or Bar Graphs (Supporting) Capture Squares (1–3), Stage 3: Add within 20 (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.1.2	Materials to Gather Sticky notes	Activity 1:	Sort and Display (1–3), Stage 2: Picture or		MLR8	How Many Do You See?	Preparation Notes

		Create a visual display with a blank bar graph that will be large enough to fit a column of sticky notes in each category.	Bar Graphs (Supporting) Capture Squares (1–3), Stage 3: Add within 20 (Supporting)				
3.1.3			Sort and Display (1–3), Stage 2: Picture or Bar Graphs (Supporting) Capture Squares (1–3), Stage 3: Add within 20 (Supporting)		MLR8	Number Talk	Preparation Notes
3.1.4			Sort and Display (1–3), Stage 2: Picture or Bar Graphs (Supporting) Capture Squares (1–3), Stage 3: Add within 20 (Supporting)		MLR8	How Many Do You See?	Preparation Notes
3.1.5	Materials to Gather Materials from a previous lesson	Activity 2: Each student needs the picture graph	Sort and Display (1–3), Stage 3: Scaled Graphs (Addressing)		MLR7	Number Talk	Preparation Notes

		they created in the previous lesson.	Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)				
3.1.6			Sort and Display (1–3), Stage 3: Scaled Graphs (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.1.7	Materials to Gather Materials from a previous lesson	Activity 1: Students will need their Favorite Time of the Year graphs from the previous lesson.	Sort and Display (1–3), Stage 3: Scaled Graphs (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)		MLR8	How Many Do You See?	Preparation Notes

3.1.8			Sort and Display (1–3), Stage 3: Scaled Graphs (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)		MLR8	Number Talk	Preparation Notes
3.1.9	Materials to Gather Connecting cubes or counters	Activity 1: Each student needs 20 connecting cubes or counters. Activity 2: Each student needs 20 connecting cubes or counters.	Capture Squares (1–3), Stage 4: Subtract within 20 (Supporting) Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)		MLR8	Number Talk	Preparation Notes
3.1.10	Materials to Copy Card Sort Equal Groups	Activity 2: Create a set of cards from the	Capture Squares (1–3), Stage 4: Subtract within 20 (Supporting) Five in a Row: Addition and	BLM L10	MLR	Notice and Wonder	Preparation Notes

		blackline master for each group of 2.	Subtraction (1–2), Stage 7: Add within 1,000 without Composing (Supporting)				
3.1.11	Materials to Gather Materials from a previous lesson	Activity 1: Each group of 2 needs 1 card from the card sort in the previous lesson. Post these expressions around the room: • 3×5 • 4×3 • 3×2 • 2×10 • 3×10	Capture Squares (1–3), Stage 4: Subtract within 20 (Supporting) Five in a Row: Addition and Subtraction (1–2), Stage 7: Add within 1,000 without Composing (Supporting)		MLR2	Choral Count	Preparation Notes
3.1.12			Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Addition and		MLR8	How Many Do You See?	Preparation Notes

			Subtraction (1–2), Stage 7: Add within 1,000 without Composing (Supporting)				
3.1.13			Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 7: Add within 1,000 without Composing (Supporting)		MLR7	Which One Doesn't Belong?	Preparation Notes
3.1.14	Materials to Copy Card Sort Unknown Numbers	Activity 1: Create a set of cards from the blackline master for each group of 2.	Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within	BLM L14	MLR8	Number Talk	Preparation Notes

			1,000 with Composing (Supporting)				
3.1.15			Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Supporting)		MLR8	Number Talk	Preparation Notes
3.1.16	Materials to Gather Connecting cubes	Activity 2: Each group of 2 needs 60 cubes.	Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Addressing)		MLR8	Notice and Wonder	Preparation Notes
3.1.17	Materials to Gather Connecting cubes or counters	Activity 1: Create a set of cards from the blackline master for	Capture Squares1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing)	BLM L17	MLR8	Which One Doesn't Belong?	Preparation Notes

	Materials to Copy Card Sort Arrays	each group of 2 or 4 students.	Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Addressing)				
3.1.18	Materials to Gather Connecting cubes or counters	Activity 1: Each group of 2 will need 20 connecting cubes or counters.	Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Addressing)		MLR2	How Many Do You See?	Preparation Notes
3.1.19			Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Addressing)		MLR8	Number Talk	Preparation Notes
3.1.20			Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing)		MLR8	Number Talk	Preparation Notes

			Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Addressing)				
3.1.21	Materials to Gather Connecting cubes or counters Inch tiles Tools for creating a visual display Materials to Copy Centimeter Grid Paper - Standard	Activity 2: Each student needs a sheet of grid paper.	Capture Squares (1–3), Stage 5: Multiply with 2, 5, and 10 (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Addressing)	BLM L21	MLR8	Notice and Wonder	Preparation Notes

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
3.2.1	Materials to Gather Pattern blocks Scissors Materials to Copy Pattern Blocks to Compare Shapes	Activity 2: Each group of 2 needs at least 2 hexagons and trapezoids, 4 squares and rhombuses, and 8 triangles.	Can You Build It? (3–5), Stage 1: Rectangles (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Supporting)	BLM L1	MLR8	How Many Do You See?	Preparation Notes
3.2.2	Materials to Gather Inch tiles Materials to Copy Use Square Tiles to Measure Area	Activity 1: Each group of 4 needs 80 square tiles. Activity 2: Each group of 2 needs 80 square tiles.	Can You Build It? (3–5), Stage 1: Rectangles (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Supporting)	BLM L2		Which One Doesn't Belong?	Preparation Notes

3.2.3	Materials to Gather Inch tiles Materials to Copy Card Sort: Rectangles Time to Tile	Activity 1: Each group of 2 needs 24 square tiles. Activity 2: Create a set of cards from the blackline master for each group of 2.	Can You Build It? (3–5), Stage 1: Rectangles (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Supporting)	BLM L3	MLR8	Which One Doesn't Belong?	Preparation Notes
3.2.4	Materials to Gather Folders	Activity 1: Each group of 2 needs one folder.	Can You Build It? (3–5), Stage 1: Rectangles (Addressing) Five in a Row: Multiplication (3–5), Stage 1: Factors 1–5 and 10 (Supporting)		MLR8	Which One Doesn't Belong?	Preparation Notes
3.2.5	Materials to Gather Inch tiles Materials to Copy		Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 1: Factors	BLM L5		How Many Do You See?	Preparation Notes

	Match Expressions and Areas		1, 2, 5, and 10 (Addressing)				
3.2.6	Materials to Gather Patty paper Rulers (whole units) Scissors Materials to Copy Same Rectangle, Different Units	Activity 2: Prepare additional copies of the grids from Same Rectangles, Different Units so students can have a fresh copy to measure the area of the square. Have patty paper available, in case requested.	Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 1: Factors 1, 2, 5, and 10 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)	BLM L6	MLR8	Notice and Wonder	Preparation Notes
3.2.7	Materials to Gather Materials from a previous activity Materials from a previous lesson	Activity 1: Optional: Create square foot and square meter units made from rulers, meter sticks, and rubber bands.	Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 1: Factors 1, 2, 5, and 10 (Addressing) Five in a Row: Addition and		MLR8	Notice and Wonder	Preparation Notes

		Activity 2: Gather examples of a square centimeter and a square inch from a previous lesson, and examples of a square meter and a square foot from the previous activity.	Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)				
3.2.8	Materials to Gather Rulers or straightedges		Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 1: Factors 1, 2, 5, and 10 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 6: Add within 100 with Composing (Supporting)		MLR8	How Many Do You See?	Preparation Notes

3.2.9	Materials to Gather Rulers (centimeters) Rulers (inches) Tape (painter's or masking) Yardsticks	Activity 2: Each group of 4 will need one roll of either painter's tape or masking tape.	Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 7: Add within 1,000 without Composing (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.2.10	Materials to Gather Inch tiles Tools for creating a visual display Materials to Copy Centimeter Grid Paper - Standard		Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 7: Add within 1,000 without	BLM L10	MLR8	Number Talk	Preparation Notes

			Composing (Supporting)				
3.2.11			Capture Squares (1–3), Stage 6: Multiply with 1–5 (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 7: Add within 1,000 without Composing (Supporting)		MLR8	How Many Do You See?	Preparation Notes
3.2.12			Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within			Number Talk	Preparation Notes

			1,000 with Composing (Supporting)				
3.2.13			Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Supporting)		MLR7	Number Talk	Preparation Notes
3.2.14			Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.2.15	Materials to Gather		Five in a Row: Multiplication (3–5),	BLM L15	MLR5	Notice and Wonder	Preparation Notes

	Grid paper Scissors Tools for creating a visual display Materials to Copy New Bed and Desk		Stage 2: Factors 1–9 (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Supporting)				

IM K-5 MATH™ by Kendall Hunt

Grade 3

UNIT 3

Virtual Manipulatives

Base-ten Blocks

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides

3.3.1	Materials to Gather Base-ten blocks Materials to Copy Numbers in Different Forms Round Table Card Sort: Numbers in Their Different Forms	Activity 1: Create a set of cards from the blackline master for each group of 2.	Target Numbers (1–5), Stage 6: Add Hundreds, Tens, or Ones (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Addressing)	BLM L1	MLR8	Which One Doesn't Belong?	Preparation Notes
3.3.2	Materials to Gather Base-ten blocks		Target Numbers (1–5), Stage 6: Add Hundreds, Tens, or Ones (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting)		MLR8	Notice and Wonder	Preparation Notes

3.3.3	Materials to Gather Base-ten blocks		Target Numbers (1–5), Stage 6: Add Hundreds, Tens, or Ones (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting)		MLR6	Number Talk	Preparation Notes
3.3.4	Materials to Gather Base-ten blocks		Target Numbers (1–5), Stage 6: Add Hundreds, Tens, or Ones (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Addressing)		MLR7	Which One Doesn't Belong?	Preparation Notes

			Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting)				
3.3.5			Target Numbers (1–5), Stage 6: Add Hundreds, Tens, or Ones (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within 1,000 with Composing (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.3.6			Target Numbers (1–5), Stage 6: Add Hundreds, Tens, or Ones (Addressing) Five in a Row: Addition and Subtraction (1–2), Stage 8: Add within		MLR8	Number Talk	Preparation Notes

			1,000 with Composing (Addressing) Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting)				
3.3.7	Materials to Gather Base-ten blocks Tools for creating a visual display		How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing)		MLR8	Number Talk	Preparation Notes
3.3.8	Materials to Copy Diagrams and Algorithms	Activity 2: Create a set of cards from the blackline master for each group of 2.	How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5),	BLM L8	MLR8	Number Talk	Preparation Notes

			Stage 2: Factors 1–9 (Supporting)				
3.3.9	Materials to Gather Base-ten blocks		How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR8	True or False	Preparation Notes
3.3.10	Materials to Gather Base-ten blocks		How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5),		MLR8	Notice and Wonder	Preparation Notes

			Stage 2: Factors 1–9 (Supporting)				
3.3.11			How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR8	Number Talk	Preparation Notes
3.3.12	Materials to Gather Paper clips Pencils Materials to Copy Greatest Difference, Smallest Difference	Activity 2: Each group of 2 will need a paper clip.	How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing)	BLM L12	MLR8	Number Talk	Preparation Notes

3.3.13			Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Addressing) How Close? (1–5), Stage 4: Add to 1,000 (Addressing)		MLR8	Estimation Exploration	Preparation Notes
3.3.14			Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Addressing) How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Capture Squares (1–3), Stage 6: Multiply with 1–5 (Supporting)		MLR2	Estimation Exploration	Preparation Notes
3.3.15			Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Addressing) How Close? (1–5), Stage 4: Add to 1,000 (Addressing)		MLR1	Choral Count	Preparation Notes

			Capture Squares (1–3), Stage 6: Multiply with 1–5 (Supporting)				
3.3.16	Materials to Gather Index cards	Activity 2: Each student needs an index card.	Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Addressing) How Close? (1–5), Stage 4: Add to 1,000 (Addressing) Capture Squares (1–3), Stage 6: Multiply with 1–5 (Supporting)		MLR8	Number Talk	Preparation Notes
3.3.17			Tic Tac Round3–5), Stage 1: Nearest Ten or Hundred (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing)		MLR8	True or False	Preparation Notes
3.3.18	Materials to Gather Sticky notes	Activity 1:	Tic Tac Round (3–5), Stage 1: Nearest Ten	BLM L18	MLR8	Notice and Wonder	Preparation Notes

	Tools for creating a visual display Materials to Copy Card Sort: Situations, Equations, and Diagrams	Create a set of cards from the blackline master for each group of 4.	or Hundred (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)				
3.3.19			Tic Tac Round (3–5), Stage 1: Nearest Ten or Hundred (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR5	Notice and Wonder	Preparation Notes

3.3.20	Materials to Copy Info Gap: Bake Sale	Activity 2: Create a set of cards from the blackline master for each group of 2. Keep set 1 separate from set 2.	Tic Tac Round (3–5), Stage 1: Nearest Ten or Hundred (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)	BLM L20		Number Talk	Preparation Notes
3.3.21			Tic Tac Round (3–5), Stage 1: Nearest Ten or Hundred (Addressing) Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Addressing) Five in a Row: Multiplication (3–5),		MLR8	Notice and Wonder	Preparation Notes

			Stage 2: Factors 1–9 (Supporting)				

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Grade 3

UNIT 4

Virtual Manipulatives

[Base-ten Blocks](#)
[Connecting Cubes](#)
[Counters](#)

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
3.4.1	Materials to Gather Connecting cubes or counters Tools for creating a visual display		Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR8	How Many Do You See?	Preparation Notes

3.4.2	Materials to Gather Connecting cubes or counters Tools for creating a visual display	Activity 3: Gather the 2–3 posters from the previous lesson and this lesson that highlight counting the groups in a "how many groups?" problem and finding how many in each group in a "how many in each group?" problem.	Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR7	Notice and Wonder	Preparation Notes
3.4.3			Rectangle Rumble (3–5), Stage 2: Factors 1–5 (Supporting) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR8	Number Talk	Preparation Notes
3.4.4			Capture Squares (1–3), Stage 6: Multiply with 1–5 (Supporting)		MLR2	Number Talk	Preparation Notes

			Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)				
3.4.5	Materials to Gather Tools for creating a visual display Materials to Copy Card Sort: All About Bugs	Activity 1: Create a set of cards from the blackline master for each group of 2.	Capture Squares (1–3), Stage 6: Multiply with 1–5 (Supporting) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)	BLM L5	MLR8	Number Talk	Preparation Notes
3.4.6			Capture Squares (1–3), Stage 6: Multiply with 1–5 (Supporting) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR7	Notice and Wonder	Preparation Notes
3.4.7	Materials to Copy Division Round Table		Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Addressing) Capture Squares (1–3), Stage 7: Multiply with 6–9 (Addressing)	BLM L7	MLR8	How Many Do You See?	Preparation Notes

3.4.8	Materials to Gather Materials from a previous activity Materials to Copy Card Sort: Multiplication Recording Sheet Card Sort: Multiplication	Activity 1: Create a set of cards from the blackline master for each group of 2. The Multiplication Fact sort cards from this activity will be used again in the next activity. Activity 2: Each group of 2 needs a set of cards from the previous activity.	Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Addressing) Capture Squares (1–3), Stage 7: Multiply with 6–9 (Addressing)	BLM L8	MLR8	Number Talk	Preparation Notes
3.4.9			Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Addressing) Capture Squares (1–3), Stage 7: Multiply with 6–9 (Addressing)		MLR2	Notice and Wonder	Preparation Notes

3.4.10	Materials to Gather Colored pencils, crayons, or markers		Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Addressing) Capture Squares (1–3), Stage 7: Multiply with 6–9 (Addressing)		MLR8	How Many Do You See?	Preparation Notes
3.4.11	Materials to Copy Card Sort: Different Expressions, Same Rectangle Centimeter Grid Paper - Standard	Activity 2: Create a set of cards from the blackline master for each group of 2 or 4.	Rectangle Rumble (3–5), Stage 3: Factors 1–10 (Addressing) Capture Squares (1–3), Stage 7: Multiply with 6–9 (Addressing)	BLM L11	MLR2	Which One Doesn't Belong?	Preparation Notes
3.4.12	Materials to Gather Base-ten blocks Materials to Copy Centimeter Grid Paper - Standard		Compare (1–5), Stage 3: Multiply within 100 (Addressing) How Close? (1–5), Stage 5: Multiply to 100 (Addressing)	BLM L12	MLR8	Notice and Wonder	Preparation Notes
3.4.13	Materials to Gather Base-ten blocks Connecting cubes or counters		Compare (1–5), Stage 2: Add and Subtract within 20 (Supporting)	BLM L13	MLR7	Estimation Exploration	Preparation Notes

	Tools for creating a visual display Materials to Copy Centimeter Grid Paper - Standard		How Close? (1–5), Stage 4: Add to 1,000 (Supporting)				
3.4.14	Materials to Gather Base-ten blocks		Compare (1–5), Stage 2: Add and Subtract within 20 (Supporting) How Close? (1–5), Stage 4: Add to 1,000 (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.4.15	Materials to Gather Base-ten blocks Sticky notes Tools for creating a visual display Materials to Copy Centimeter Grid Paper - Standard		Compare (1–5), Stage 3: Multiply within 100 (Addressing) How Close? (1–5), Stage 5: Multiply to 100 (Addressing)	BLM L15	MLR8	Which One Doesn't Belong?	Preparation Notes
3.4.16	Materials to Gather Base-ten blocks	Activity 3:	Compare (1–5), Stage 3: Multiply within 100 (Addressing)	BLM L16	MLR8	Number Talk	Preparation Notes

	Materials to Copy Centimeter Grid Paper - Standard Number Cards (0-10)	Create a set of cards from the blackline master for each group of 2.	How Close? (1–5), Stage 5: Multiply to 100 (Addressing)				
3.4.17	Materials to Gather Base-ten blocks Materials to Copy Centimeter Grid Paper - Standard		Compare (1–5), Stage 3: Multiply within 100 (Addressing) How Close? (1–5), Stage 5: Multiply to 100 (Addressing)	BLM L17	MLR5	True or False	Preparation Notes
3.4.18	Materials to Gather Base-ten blocks Connecting cubes or counters Materials to Copy Centimeter Grid Paper - Standard		Compare (1–5), Stage 4: Divide within 100 (Addressing) How Close? (1–5), Stage 5: Multiply to 100 (Addressing)	BLM L18	MLR7	What Do You Know About ____?	Preparation Notes
3.4.19	Materials to Gather Base-ten blocks		Compare (1–5), Stage 4: Divide within 100 (Addressing)		MLR8	True or False	Preparation Notes

			How Close? (1–5), Stage 5: Multiply to 100 (Addressing) Can You Draw It?1–5), Stage 2: Grade 2 Shapes (Supporting)				
3.4.20	Materials to Gather Base-ten blocks Materials to Copy Compare Stage 4 Division Cards Centimeter Grid Paper - Standard	Activity 3: Create a set of cards from the blackline master for each group of 2. Remove the cards with two-digit divisors.	Compare (1–5), Stage 4: Divide within 100 (Addressing) How Close? (1–5), Stage 5: Multiply to 100 (Addressing) Can You Draw It? (1–5), Stage 2: Grade 2 Shapes (Supporting)	BLM L20	MLR8	Number Talk	Preparation Notes
3.4.21					MLR8	Notice and Wonder	Preparation Notes
3.4.22	Materials to Copy Centimeter Grid Paper - Standard			BLM L22	MLR7	Notice and Wonder	Preparation Notes

IM K-5 MATH™ by Kendall Hunt

Grade 3

UNIT 5

Virtual Manipulatives

Base-ten Blocks
Dot Cube

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
3.5.1	Materials to Copy Fold and Name Card Sort: Partitions	Activity 1: Create a set of cards from the blackline master for each group of 2. Activity 2: Each student needs 4 copies of the	Mystery Number (1–4), Stage 2: Three-digit Numbers (Supporting) Number Line Scoot (2–3), Stage 1: Twos, Fives, and Tens (Supporting)	BLM L1	MLR2	Which One Doesn't Belong?	Preparation Notes

		rectangle from the blackline master. Have extra rectangles available for students who need more than one try to fold the rectangles into equal parts. Create poster for synthesis: (See Preparation Noted for image)					
3.5.2	Materials to Copy Partition the Strips	Activity 1: Use the blackline master to create one set of 6 equal-sized strips for each student.	Mystery Number (1–4), Stage 2: Three-digit Numbers (Supporting) Number Line Scoot (2–3), Stage 1: Twos, Fives, and Tens (Supporting)	BLM L2	MLR8	Which One Doesn't Belong?	Preparation Notes
3.5.3	Materials to Copy Fraction Match Part 2	Activity 2: Create a set of cards from the Fraction	Mystery Number (1–4), Stage 2: Three-digit Numbers (Supporting)	BLM L3	MLR8	Notice and Wonder	Preparation Notes

	Fraction Match Part 1	Match Part 1 blackline master for each group of 2. Create a set of 8 cards from the Fraction Match Part 2 blackline master for each group of 2.	Number Line Scoot (2–3), Stage 1: Twos, Fives, and Tens (Supporting)				
3.5.4	Materials to Gather Colored pencils Folders Materials for creating a visual display Materials to Copy Secret Fractions Stage 1 Gameboard Secret Fractions Stage 1 Cards	Activity 1: Create a set of cards from the blackline master for each group of 2. Print extra gameboards for the launch and groups that have time for an extra game. Students might want a folder or divider so their partner doesn't see their cards.	Mystery Number (1–4), Stage 3: Fractions with Denominators 2, 3, 4, 6 (Addressing) Number Line Scoot (2–3), Stage 2: Halves, Thirds and Fourths (Addressing)	BLM L4	MLR8	Number Talk	Preparation Notes
3.5.5	Materials to Gather	Activity 1:	Mystery Number (1–4), Stage 3: Fractions	BLM L5	MLR2	Notice and Wonder	Preparation Notes

	Scissors Materials to Copy Card Sort: Number Lines Fold and Label Number Lines	Create a set of cards from the blackline master for each group of 2. Activity 2: Each student needs at least 5 number lines from 0 to 1. Each copy of the blackline master contains a few extra number lines, in case students fold incorrectly at first. Create a number line folded into fourths and a fraction strip that shows fourths to display in the synthesis.	with Denominators 2, 3, 4, 6 (Addressing) Number Line Scoot (2–3), Stage 2: Halves, Thirds and Fourths (Addressing)				
3.5.6			Mystery Number (1–4), Stage 3: Fractions		MLR8	Which One Doesn't Belong?	Preparation Notes

			with Denominators 2, 3, 4, 6 (Addressing) Number Line Scoot (2–3), Stage 2: Halves, Thirds and Fourths (Addressing)				
3.5.7	Materials to Gather Base-ten blocks Number cubes Materials to Copy Number Line Scoot Stage 2 Gameboard Number Line Scoot Stage 2 Directions	Activity 1: Each group of 2 students needs a number cube. Each student needs at least 5 base-ten cubes to use as game pieces.	Secret Fraction (3), Stage 1: Building Non-Unit Fractions (Addressing) Number Line Scoot (2–3), Stage 2: Halves, Thirds and Fourths (Addressing)	BLM L7	MLR8	Choral Count	Preparation Notes
3.5.8			Secret Fraction (3), Stage 1: Building Non-Unit Fractions (Addressing) Number Line Scoot (2–3), Stage 2: Halves,		MLR1	Number Talk	Preparation Notes

			Thirds and Fourths (Addressing)				
3.5.9			Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Secret Fraction (3), Stage 1: Building Non-Unit Fractions (Addressing)		MLR8	Which One Doesn't Belong?	Preparation Notes
3.5.10	Materials to Gather Materials from a previous lesson	Warm-up: Have recording of choral count by one-fourth available, from a previous lesson. Activity 2: Students need the fraction strips they made in a previous lesson.	Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Secret Fraction (3), Stage 1: Building Non-Unit Fractions (Addressing)		MLR7	Choral Count	Preparation Notes

3.5.11			Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Secret Fraction (3), Stage 1: Building Non-Unit Fractions (Addressing)		MLR8	Number Talk	Preparation Notes
3.5.12	Materials to Gather Number cubes	Activity 3: Each group of 2 needs 6 number cubes.	Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Secret Fraction (3), Stage 1: Building Non-Unit Fractions (Addressing)		MLR8	Notice and Wonder	Preparation Notes
3.5.13			Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Addressing) Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths		MLR8	Notice and Wonder	Preparation Notes

			and Eighths (Addressing)				
3.5.14	Materials to Gather Materials for creating a visual display		Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Addressing) Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR8	Number Talk	Preparation Notes
3.5.15	Materials to Gather Colored pencils Paper clips Materials to Copy Spin to Win Recording Sheet Spin to Win Spinner	Activity 2: Each group of 2 needs a paper clip for their spinner.	Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Addressing) Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing)	BLM L15	MLR7	Notice and Wonder	Preparation Notes

			Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)				
3.5.16			Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Addressing) Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR1	True or False	Preparation Notes
3.5.17			Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Addressing) Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths		MLR8	Estimation Exploration	Preparation Notes

			and Eighths (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)				
3.5.18	Materials to Gather Paper Rulers or straightedges		Rolling for Fractions (3–5), Stage 1: Equivalent Fractions (Addressing) Number Line Scoot (2–3), Stage 3: Halves, Thirds, Fourths, Sixths and Eighths (Addressing) Five in a Row: Multiplication (3–5), Stage 2: Factors 1–9 (Supporting)		MLR2	Notice and Wonder	Preparation Notes

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UNIT 6

Virtual Manipulatives

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
3.6.1	Materials to Gather Materials from a previous activity Materials to Copy Measure Around the Room	Activity 1: Make copies and cut out the rulers from the blackline master (5 rulers per page). Activity 2: Each student needs a ruler from the previous activity.	Estimate and Measure (1–4), Stage 2: Centimeters and Inches (Supporting) Target Measurements (2–5), Stage 1: Inches and Centimeters (Supporting)	BLM L1	MLR2	What Do You Know About ____?	Preparation Notes

3.6.2	Materials to Gather Materials from a previous activity Materials from a previous lesson	Activity 1: Each group of 2 will need a ruler that didn't get partitioned in the previous lesson. Activity 2: Each group of 2 will need the rulers from previous activities: one that was partitioned into half inches and another partitioned into quarter inches.	Estimate and Measure (1–4), Stage 2: Centimeters and Inches (Supporting) Target Measurements (2–5), Stage 1: Inches and Centimeters (Supporting)		MLR2	Estimation Exploration	Preparation Notes
3.6.3	Materials to Gather Materials from a previous activity Materials from a previous lesson Rulers (inches)	Warm-up: Each group of 2 needs the rulers from the previous lesson.	Estimate and Measure (1–4), Stage 3: Quarter Inches (Addressing) Target Measurements (2–5),	BLM L3	MLR8	Notice and Wonder	Preparation Notes

	Materials to Copy Notice and Wonder Rulers	Cut out a ruler from the blackline master for each student. Activity 1: Each student needs a ruler marked with half inches and quarter inches from the warm-up. Activity 2: Each student needs a ruler marked with half inches and quarter inches from the previous activity.	Stage 2: Quarter Inches (Addressing) Creating Line Plots (2–5), Stage 1: Inches and Centimeters (Supporting)				
3.6.4			Estimate and Measure (1–4), Stage 3: Quarter Inches (Addressing)		MLR6	Notice and Wonder	Preparation Notes

			Target Measurements (2–5), Stage 2: Quarter Inches (Addressing) Creating Line Plots (2–5), Stage 1: Inches and Centimeters (Supporting)				
3.6.5	Materials to Gather Glue or tape Materials from a previous lesson Scissors Tools for creating a visual display Materials to Copy Let's Make a Line Plot	Activity 1: Each group of 4 needs a ruler marked with half inches and quarter inches from a previous lesson.	Estimate and Measure (1–4), Stage 3: Quarter Inches (Addressing) Target Measurements (2–5), Stage 2: Quarter Inches (Addressing) Creating Line Plots (2–5), Stage 1: Inches and Centimeters (Supporting)	BLM L5	MLR8	Number Talk	Preparation Notes
3.6.6	Materials to Gather Chart paper	Activity 1:	Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing)		MLR8	Notice and Wonder	Preparation Notes

	Markers	Create a set of metric weights (1 kilogram, 2 kilograms, 1 gram, 10 grams, 100 grams). Weights can be made by filling bags with the following quantities of objects: for 1 kilogram: 1,000 jumbo paper clips or a 1 liter bottle filled with water for 1 gram: 1 large paper clip Create a poster with the labels "less than 1 gram," "between 1 gram and 100 grams," "between 100 grams and 1 kilogram," and "over 1 kilogram" for the synthesis.	Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)				

		If possible, gather scales (analog and digital), primary balances, and any other available weight measurement tools for the synthesis of Estimate Weight activity. Prepare enough tools for each group of students to have one, or prepare one for a whole-class weighing demonstration.					
3.6.7	Materials to Gather Markers (dry-erase)	Activity 1: Each group of 4 needs: a supply of water (1 liter bottles would work and could be	Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing) Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)		MLR5	Notice and Wonder	Preparation Notes

		reused for the next activity) two containers that are different in shape, but close in size, each labeled with “A” and “B” a small container labeled with “unit,” such as a large spoon, film canister, or a small measuring cup a tray or towel to work on (optional) (see Preparation Noted for image) Activity 2: Gather the following materials: a large clear container that can					

		be written on, such as a gallon water jug with top removed or clear storage bin 1-liter container (1-liter water bottle, measuring cup, etc.) a supply of water (enough to fill the larger container) OR the Liquid Volume in Liters video: https://vimeo.com/451620298					
3.6.8			Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing) Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)		MLR8	Number Talk	Preparation Notes
3.6.9			Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing)		MLR8	Estimation Exploration	Preparation Notes

			Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)				
3.6.10			Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)		MLR7	Choral Count	Preparation Notes
3.6.11	Materials to Gather Materials from a previous activity	Activity 1: Display students' ideas from the lesson synthesis in the previous lesson.	Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)		MLR8	Notice and Wonder	Preparation Notes
3.6.12	Materials to Gather	Activity 2:	Number Puzzles: Addition and	BLM L12	MLR8	Notice and Wonder	Preparation Notes

	Tools for creating a visual display Materials to Copy Card Sort: Giant Pumpkins	Create a set of cards from the blackline master for each group of 2.	Subtraction (1–4), Stage 5: Within 1,000 (Supporting) Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)				
3.6.13	Materials to Copy Info Gap: Pig Weigh-Off Info Gap: Pumpkin Weigh-Off	Activity 1: Create a set of cards from the blackline master for each group of 2. Keep set 1 separate from set 2. Activity 2: Create a set of cards from the blackline master for each group of 2. Keep set 1 separate from set 2.	Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)	BLM L13		Estimation Exploration	Preparation Notes

3.6.14			Compare (1–5), Stage 3: Multiply within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)		MLR8	Number Talk	Preparation Notes
3.6.15	Materials to Gather Materials from a previous activity Tools for creating a visual display	Activity 2: Display posters from the previous activity.	Compare (1–5), Stage 3: Multiply within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)		MLR7	Number Talk	Preparation Notes
3.6.16	Materials to Gather Paper clips Pipe cleaners Rulers Tape (painter's or masking) Yardsticks	Activity 1: Gather tape measures, toilet paper tubes, marbles, pennies, paper cups, and a collection of balls that bounce for students to use as they create their games.	Compare (1–5), Stage 3: Multiply within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)		MLR8	Notice and Wonder	Preparation Notes

		Other material not included in this list can be made available to students to use to create their games.					

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UNIT 7

Virtual Manipulatives

[Counters]

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides

3.7.1	Materials to Copy Shape Cards Grade 3	Activity 1: Create a set of cards from the blackline master for each group of 2.	Can You Draw It? (1–5), Stage 2: Grade 2 Shapes (Supporting) How Are They the Same? (1–5), Stage 2: Grade 2 Shapes (Supporting) Which One? (K–5), Stage 3: Grade 2 Shapes (Supporting)	BLM L1	MLR2	Which One Doesn't Belong?	Preparation Notes
3.7.2	Materials to Gather Bags or envelopes Materials to Copy Triangle Cards Grade 3 Quadrilateral Cards Grade 3	Activity 1: Create a set of cards from the blackline master for each group of 2 or 4. When copying the card sort triangles, use colored paper to distinguish these cards from the cards in the next activity.	Can You Draw It? (1–5), Stage 2: Grade 2 Shapes (Supporting) How Are They the Same? (1–5), Stage 2: Grade 2 Shapes (Supporting) Which One? (K–5), Stage 3: Grade 2 Shapes (Supporting)	BLM L2	MLR2	True or False	Preparation Notes

		Activity 2: Create a set of cards from the blackline master for each group of 2 or 4. Bags or envelopes can be used to store sets of cards from this activity for use in the next lesson.					
3.7.3	Materials to Gather Counters Folders Materials from a previous lesson	Activity 1: Gather a set of quadrilateral cards from the previous lesson. Activity 2: Each group of 2 needs a set of quadrilateral cards	Can You Draw It? (1–5), Stage 2: Grade 2 Shapes (Supporting) How Are They the Same? (1–5), Stage 2: Grade 2 Shapes (Supporting) Which One? (K–5), Stage 3: Grade 2 Shapes (Supporting)		MLR8	Number Talk	Preparation Notes

		from the previous lesson. Each group of 2 will need a folder to hide the card during this activity.					
3.7.4		Activity 1: Create a chart with labels showing a rectangle, rhombus, and square for the lesson synthesis.	Picture Books (K–5), Stage 3: Find Shapes (Addressing) Which One? (K–5), Stage 4: Grade 3 Shapes (Addressing)		MLR8	Which One Doesn't Belong?	Preparation Notes
3.7.5			Picture Books (K–5), Stage 3: Find Shapes (Addressing) Which One? (K–5), Stage 4: Grade 3 Shapes (Addressing)		MLR8	Number Talk	Preparation Notes
3.7.6	Materials to Gather Paper clips	Activity 1: Each group of 4 needs 25-50 paper	Picture Books (K–5), Stage 3: Find Shapes (Addressing)	BLM L6	MLR8	Notice and Wonder	Preparation Notes

	Materials to Copy What Does It Take to Build the Shapes?	clips that are $1\frac{1}{4}$-inch long each. If using 1-inch paper clips, use 80% scale when making copies of the blackline masters.	Which One? (K–5), Stage 4: Grade 3 Shapes (Addressing)				
3.7.7			Can You Draw It? (1–5), Stage 3: Grade 3 Shapes (Addressing) How Are They the Same?? (1–5), Stage 3: Grade 3 Shapes (Addressing)		MLR7	True or False	Preparation Notes
3.7.8	Materials to Gather Tools for creating a visual display		Can You Draw It? (1–5), Stage 3: Grade 3 Shapes (Addressing) Which One? (K–5), Stage 4: Grade 3 Shapes (Addressing) How Are They the Same? (1–5), Stage 3: Grade 3 Shapes (Addressing)		MLR8	Can You Draw It? (1–5), Stage 3: Grade 3 Shapes (Addressing) How Are They the Same? (1–5), Stage 3: Grade 3 Shapes (Addressing)	Preparation Notes

3.7.9			Can You Draw It? (1–5), Stage 3: Grade 3 Shapes (Addressing) Which One? (K–5), Stage 4: Grade 3 Shapes (Addressing) How Are They the Same? (1–5), Stage 3: Grade 3 Shapes (Addressing)		MLR8	Estimation Exploration	Preparation Notes
3.7.10	Materials to Copy Info Gap: A Garden and a Playground	Activity 2: Each group of 2 will need a copy of the 2 data and problem card sets. Keep set 1 separate from set 2.	Can You Draw It? (1–5), Stage 3: Grade 3 Shapes (Addressing) Which One? (K–5), Stage 4: Grade 3 Shapes (Addressing) How Are They the Same? (1–5), Stage 3: Grade 3 Shapes (Addressing)	BLM L10	MLR1	True or False	Preparation Notes
3.7.11	Materials to Gather Scissors Tape	Activity 2: Create 4 visual displays. Each visual display	Can You Draw It? (1–5), Stage 4: Area and Perimeter (Addressing)	BLM L11	MLR8	Number Talk	Preparation Notes

	Materials to Copy Square Dot Paper Standard	should be labeled with a different perimeter. Use the following perimeters: 12 units, 20 units, 26 units, 34 units). Students cut out and tape their rectangles on one of the visual displays during this activity.					
3.7.12	Materials to Gather Scissors Tape Materials to Copy Square Dot Paper Standard	Activity 2: Create 4 visual displays. Each visual display should be labeled with one of the following areas: 12 square units, 20 square units, 42 square units, 48 square units.	Can You Draw It? (1–5), Stage 4: Area and Perimeter (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)	BLM L12	MLR8	Number Talk	Preparation Notes

		Students will cut out and tape their rectangles on to one of the visual displays.					
3.7.13	Materials to Copy Square Dot Paper Standard		Can You Draw It? (1–5), Stage 4: Area and Perimeter (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)	BLM L13	MLR8	Notice and Wonder	Preparation Notes
3.7.14	Materials to Gather Colored pencils, crayons, or markers Materials to Copy Info Gap: The Bundle	Activity 2: Each group of 2 students will need a copy of the 2 data and problem card sets. Keep set 1 separate from set 2.	Can You Draw It? (1–5), Stage 4: Area and Perimeter (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)	BLM L14	MLR8	Notice and Wonder	Preparation Notes

	Square Dot Paper Standard						
3.7.15	Materials to Gather Tape Materials to Copy Square Dot Paper Standard	Activity 1: Students will need to tape together at least 2 sheets of the square dot paper to have space for their robot	Can You Draw It? (1–5), Stage 4: Area and Perimeter (Addressing) Compare (1–5), Stage 4: Divide within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)	BLM L15	MLR8	What Do You Know About ____?	Preparation Notes

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UNIT 8

Virtual Manipulatives

Lesson	Required Materials	Required Preparation	Suggested Centers	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
3.8.1					MLR2	Which One Doesn't Belong?	Preparation Notes
3.8.2	Materials to Gather Markers Tape (painter's or masking)	Activity 1: Each group of 3-4 students needs a roll of tape and a marker.			MLR8	Which One Doesn't Belong?	Preparation Notes
3.8.3					MLR8	What Do You Know About ____?	Preparation Notes
3.8.4	Materials to Gather Materials from a previous activity	Activity 2: Each student needs the tiny house design they created in the previous activity.			MLR8	Notice and Wonder	Preparation Notes
3.8.5	Materials to Gather	Activity 1:			MLR8	Estimation Exploration	Preparation Notes

	Materials from a previous lesson	Each student needs the tiny house design they created in the previous lesson.					
3.8.6	Materials to Copy Survey a Large Group	Activity 2: A blackline master is provided to record students' survey results, but they could also record their results using lined paper.		BLM L6	MLR8	Notice and Wonder	Preparation Notes
3.8.7	Materials to Gather Materials from a previous activity Materials from a previous lesson Materials to Copy Draw Scaled Graphs	Activity 1: Each group of 4 needs the survey data from the previous lesson. Activity 2: Each group needs the bar graphs		BLM L7	MLR8	Notice and Wonder	Preparation Notes

		they created in the previous activity.					
3.8.8	Materials to Gather Materials from a previous lesson Materials to Copy Card Sort: Multiplication Recording Sheet Compare Stage 3 Multiplication Cards Card Sort: Multiplication	Activity 1: Gather materials from Multiplication Card Sort, an activity from a previous unit. If remaking the cards, create a set of cards from the blackline master for each group of 2. Activity 2: Create a set of cards from the blackline master for each group of 2.		BLM L8	MLR8	Number Talk	Preparation Notes
3.8.9	Materials to Gather Materials from previous centers	Activity 2: Gather materials from:		BLM L9	MLR7	Number Talk	Preparation Notes

	Materials to Copy Rectangle Rumble Stage 3 Grid Rectangle Rumble Stage 3 Spinners Number Cards (0-10) How Close? Stage 5 Recording Sheet	Compare, Stage 3 How Close, Stage 5 Rectangle Rumble, Stage 3					
3.8.10	Materials to Gather Glue or tape Materials from a previous activity Tools for creating a visual display Materials to Copy	Activity 1: The blackline master has 24 cards. Copy and cut enough cards so that each student can have one card. Activity 2:		BLM L10	MLR7	Which One Doesn't Belong?	Preparation Notes

	Find the Match	Keep posters from the previous activity displayed.					
3.8.11	Materials to Gather Materials from previous centers Number cubes	Activity 2: Gather materials from: Compare, Stage 4			MLR8	Number Talk	Preparation Notes
3.8.12	Materials to Gather Chart paper Markers Picture books	Activity 1: Each group of 3-4 needs picture books to use as they create their Notice and Wonder activity. Activity 2: Each group of 3-4 from the previous activity needs 1 piece of chart			MLR8	Notice and Wonder	Preparation Notes

		paper and a marker.					
3.8.13	Materials to Gather Chart paper Markers	Activity 2: Each group of 3-4 from the previous activity needs 1 piece of chart paper and a marker.			MLR8	How Many Do You See?	Preparation Notes
3.8.14	Materials to Gather Chart paper Markers Picture books Rulers	Activity 1: Each group of 2-3 needs picture books and a ruler to design their Estimation Exploration activity. Activity 2: Each group of 2–3 from the previous activity needs 1			MLR8	Estimation Exploration	Preparation Notes

		piece of chart paper and a marker.					
3.8.15					MLR8	Number Talk	Preparation Notes