Math K-3

An Incremental Development

Home Study Sampler

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with

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Saxon Publishers, Inc.

Math K–3 Home Study Sampler Contents

The contents of this sampler were chosen to illustrate what you will find in Saxon's Home Study Math K-3 program.

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A Guide to the Sampler

This sampler shows only a very small portion of what you would receive in the primary Saxon Home Study Kit. It is designed to give you a flavor of the program. The sampler includes an overview of the program, a table of contents for each level, samples of lesson pages taken from the teacher's manual, and samples of pages from the student workbook (grades 1 through 3).

The samples of lessons from the teacher's manual and the accompanying student pages were chosen for their variety. These lessons show various concepts taught and many of the manipulatives used in the program. Some are lessons taught early in the year, while others are later lessons. Sample lessons which use lesson masters are included at each level, and grades 1 through 3 each show an example of a lesson with a written assessment. Notes about the sample lessons are included before the lessons at each level.

Program Overview

Saxon Math develops a solid foundation in the language and basic concepts in all areas of mathematics. It carefully builds concepts in small increments and provides practice in order to create success for your child.

Saxon's primary Home Study Kits for kindergarten through third grade provide materials appropriate for teaching children in a home setting. Each kit contains:

- a Teacher's Manual (a spiral-bound book containing from 112 lessons in kindergarten up to 140 lessons in third grade)
- a Meeting Book (a consumable book which you and your child will use during The Meeting at the beginning of the day)

Each first through third grade kit also contains:

• a Student Workbook (two books which include written practice pages, lesson masters, assessments, and fact sheets) and Fact Cards

Each lesson in the teacher's manual provides a list of materials and preparation instructions. The lesson which follows is scripted, making teaching easy and providing appropriate language and questions. This lesson includes The Meeting, a new objective to be taught, fact practice and written practice instructions (in grades 1 through 3), and assessment instructions on appropriate days.

The instructional components of each grade can be viewed in the sample lessons.

There are five components to Saxon's primary math program.

1. The Meeting

During The Meeting you and your child will use a Meeting Book to orally practice skills related to the calendar, counting, patterning, time, temperature, graphs, money, and problem solving. The difficulty of skills practiced will vary according to grade level.

2. The Lesson

The Lesson or new objective can be taught later in the day. New concepts, which build on skills previously introduced and practiced, are presented through carefully selected, hands-on activities. Some manipulatives used in the lessons will be found in the home or can be made, while others can be purchased from an educational supply house.

3. Written Practice

The written practice (grades 1 through 3 only) includes practice of the new objective and previous skills. The first side (A) is completed with your assistance, while the other side (B), with problems similar to those on the first side, is done later in the day.

4. Fact Practice

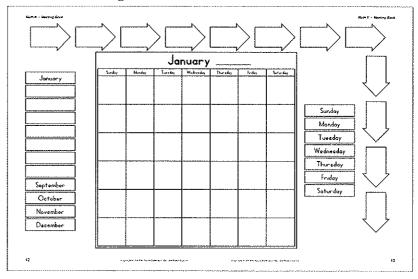
The number facts (grades 1 through 3 only) are practiced daily using fact cards and fact sheets. Number facts with similar patterns are introduced in groups, and your child will learn to recognize these patterns to find the answers to the facts.

5. Assessments

Oral and written assessments question your child on skills practiced for at least five lessons. In grades 1 through 3, a written assessment occurs every five lessons and an oral assessment occurs every ten lessons. In kindergarten, an oral assessment occurs every six lessons.

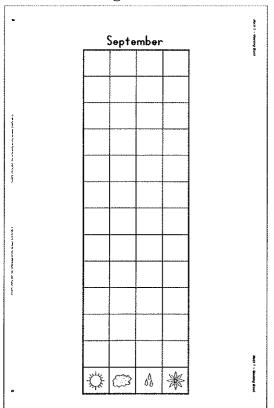
The Meeting Book

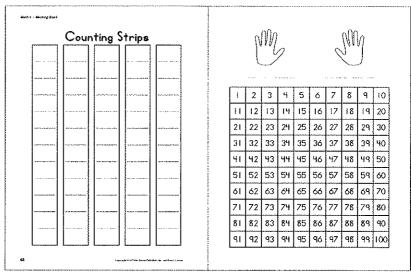
Math K Meeting Book



Monthly calendars are included in each Meeting Book. The kindergarten calendar is used to practice counting, patterning, identifying colors, and writing numbers.

Math 1 Meeting Book





First and second graders graph the weather each day using the Meeting Book. In the first grade, the weather graph is used to practice counting and comparing. Number patterning is practiced using a hundred number chart and counting strips.

Math 2 Meeting Book

Math 2 and Math 3 Meeting Books include graphs created in Math 2 and Math 3 lessons. Graph reading is practiced during The Meeting.

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Math 3 Meeting Book

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The Meeting Books also include pages for recording information learned in lessons.

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Math K Home Study Table of Contents

The table of contents indicates the **order of topics** covered in Math K.

Examples of the development of topics can be seen in the Sample Lessons.

September's Lessons

Lesson 1	Exploring Pattern Blocks
Lesson 2	Exploring Pattern Blocks
Lesson 3	Exploring Teddy Bear Counters
Lesson 4	Exploring Teddy Bear Counters
Lesson 5	Making a Pictograph
Lesson 6	Reading a Graph; Exploring Teddy Bear Counters and Pattern Blocks
Lesson 7	Counting to 5 with One-to-One Correspondence
Lesson 8	Exploring Linking Cubes; Counting to 5 with One- to-One Correspondence
Lesson 9	Creating an AB Color Pattern; Counting with One-to-One Correspondence
Lesson 10	Making a Real Graph; Identifying the Most and the Fewest on a Graph
Lesson 11	Counting to 10 with One-to-One Correspondence
Lesson 12	Creating Pattern Block Designs; Identifying Properties of Pattern Blocks

October's Lessons

Lesson 13	Creating and Reading an AB Color Pattern
Lesson 14	Covering Designs Using Pattern Blocks
Lesson 15	Sorting by Color
Lesson 16	Sorting by Color; Creating a Real Graph
Lesson 17	Acting Out Story Problems
Lesson 18	Identifying Circles and Rectangles
Lesson 19	Placing an Object on a Real Graph; Identifying the Most and the Fewest on a Graph
Lesson 20	Naming a Shape Piece Using Three Attributes (Shape, Color, and Size)
Lesson 21	Creating and Reading an AB Color Pattern
Lesson 22	Creating and Reading an AB Color Pattern
Lesson 23	Acting Out Story Problems
Lesson 24	Placing a Tag on a Pictograph; Identifying the Most and the Fewest on a Graph

November's Lessons

Lesson 25	Creating and Reading an ABB Color Pattern
Lesson 26	Creating a Bar Graph
Lesson 27	Assessment #1: Counting Objects; Matching Sets of Objects Using One-to-One Correspondence
Lesson 28	Identifying Ordinal Position to Fourth
Lesson 29	Covering Designs Using Pattern Blocks
Lesson 30	Identifying Triangles and Squares
Lesson 31	Naming a Shape Piece Using Three Attributes (Shape, Color, and Size)
Lesson 32	Ordering the Numbers 1–10; Identifying a Missing Number

Lesson 33	Ordering the Numbers 0–10; Counting Backward from 10	Lesson 65	Identifying the Numbers 0-20; Ordering the Numbers 0-20
Lesson 34 Lesson 35	Assessment #2: Identifying and Naming Shapes Identifying Ordinal Position to Fourth (SAMPLE)	Lesson 66	Identifying the Numbers 0–20; Ordering the Numbers 0–20
Lesson 36	LESSON) Ordering the Numbers 0–10; Identifying a Missing	Lesson 67	Identifying a One-Cup Measuring Cup; Following a Recipe
	Number	Lesson 68	Identifying Full, Half-Full, and Empty Containers; Identifying a Quart Container
	December's Lessons	Lesson 69	Covering a Design in More Than One Way
Lesson 37	Creating and Reading an ABB Color Pattern	Lesson 70	Paying for Items to \$1.00 Using Dimes
Lesson 38	Identifying Pennies; Counting Pennies	Lesson 71	Assessment #7: Identifying Ordinal Position
Lesson 39	Matching a Number Card to a Set of Objects	Lesson 72	Graphing a Picture on a Pictograph
Lesson 40	Naming a Shape Piece Using Three Attributes		
	(Shape, Color, and Size); Identifying a Missing		March's Lessons
	Piece in a Matrix	Lesson 73	Comparing Length; Identifying Shorter and Longer
Lesson 41	Making a Pictograph	Lesson 74	Ordering Four Objects by Length
Lesson 42	Assessment #3: Matching Sets and Numbers	Lesson 75	Naming a Shape Piece Using Three Attributes (Size,
Lesson 43	Acting Out Story Problems Using Pennies		Color, and Shape)
Lesson 44	Identifying Time to the Hour	Lesson 76	Copying Lines and Shapes on a Geoboard
Lesson 45	Identifying Ordinal Position to Fourth	Lesson 77	Copying Designs on a Geoboard
Lesson 46	Showing Time to the Hour on a Clock	Lesson 78	Assessment #8: Creating a Real Graph
Lesson 47	Writing Money Amounts to 10¢; Ordering Money Amounts to 10¢	Lesson 79	Ordering Objects by Length: Measuring Length Using Nonstandard Units (SAMPLE LESSON)
Lesson 48	Paying for Items to 10€ Using Pennies	Lesson 80	Making an ABC Pattern Using Pattern Blocks
		Lesson 81	Acting Out Some, Some More, and Some, Some
	January's Lessons	r	Went Away Stories
Lesson 49	Creating and Reading an AABB Color Pattern	Lesson 82	Comparing Numbers to Ten
Lesson 50	Assessment #4: Sorting and Identifying the Sorting	Lesson 83	Comparing Numbers to Ten
	Rule	Lesson 84	Making an ABBC Pattern Using Pattern Blocks
Lesson 51	Making a Pictograph		
Lesson 52	Copying Patterns; Identifying an AB Pattern		April's Lessons
Lesson 53	Naming a Shape Piece Using Two Attributes (Color and Shape); Identifying a Missing Piece in a	Lesson 85	Assessment #9: Counting by 1's
	Matrix	Lesson 86	Dividing by Sharing; Comparing Numbers to Ten
Lesson 54	Copying Patterns; Identifying AB and ABB Patterns	Lesson 87	Exploring Tangram Pieces
Lesson 55	Exploring a Geoboard	Lesson 88	Creating a Tangram Design; Sorting and Identifying Tangram Pieces
Lesson 56	Making Shapes on a Geoboard	Lesson 89	Measuring Length Using Nonstandard Units
Lesson 57	Assessment #5: Identifying the Numbers 0–10;	Lesson 90	Identifying Nickels; Counting by 5's
×	Sequencing the Numbers 0–10	Lesson 91	Counting Nickels
Lesson 58 Lesson 59	Placing an Object on a Real Graph Identifying Ordinal Position; Paying for Items Using	Lesson 92	Assessment #10: Acting Out Addition and Subtraction Stories
Lesson 60	Pennies Identifying Dimes; Counting by 10's	Lesson 93	Identifying Largest and Smallest Shapes; Identifying and Covering Half of a Shape
		Lesson 94	Covering Designs Using Tangrams
	February's Lessons	Lesson 95	Paying for Items to 25¢ Using Nickels
Lesson 61	Copying Lines, Shapes, and Designs on a Geoboard	Lesson 96	Covering Designs Using Tangrams
Lesson 62	Counting Dimes to 50¢		

Lesson 63 Paying for Items to 50¢ Using Dimes

Lesson 64 Assessment #6: Copying and Extending Patterns

Math K Table of Contents (continued)

May's Lessons

Lesson 97 Paying for Items to 50¢ Using Nickels Lesson 98 Assessment #11: Comparing and Measuring Length Paying for Items Using Pennies, Nickels, or Dimes Lesson 99 Lesson 100 Identifying and Matching Equivalent Sets; Identifying Doubles Lesson 101 Identifying and Matching Equivalent Sets; Identifying Doubles Lesson 102 Covering Designs with Tangrams Lesson 103 Assessment #12: Copying Geoboard Designs Lesson 104 Ordering Objects by Size Lesson 105 Acting Out Some, Some More Stories Lesson 106 Dividing a Shape in Half; Ordering Shapes by Size Lesson 107 Comparing Objects by Weight (Mass) Lesson 108 Assessment #13: Covering Designs Using Tangrams

June's Lessons

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- Lesson 110 Placing a Tag on a Pictograph
- Lesson 111 Identifying and Matching Equivalent Sets
- Lesson 112 Assessment #14: Naming the Days of the Week;
 Counting by 10's to 100; Identifying the Penny,
 the Nickel, and the Dime

Appendix

Oral Assessment Recording Forms (4 pages) Student Masters (37 pages) Optional Handwriting Masters (27 pages)

Notes on Math K Sample Lessons

On the following pages you will find three *Math K* lessons. These are lessons taken from the *Math K Home Study Teacher's Manual*. The teacher's manual also includes oral assessment recording forms, lesson masters, and optional handwriting masters. An example of a lesson master and a page of the oral assessment recording forms are included with these lessons.

The charts below identify the components found in each lesson and describe how each component is used.

Lesson 35

Meeting	The calendar in the Meeting Book is used to practice patterning, counting, and identifying colors, numbers, months, and days of the week.
Lesson	Construction paper shapes are used to teach ordinal position to fourth.
Master K-35	This master provides shape patterns to use in the lesson.

Lesson 79

Meeting	Estimation and clock activities have been added, as well as naming weekend days.
Lesson	Linking cubes are used to measure length.

Lesson 109

Meeting	A new month is introduced, along with a new color pattern for the month.
Lesson	Teddy bear counters are used to act out story problems.



${f esson~35}$ – Eleventh Lesson in November

identifying ordinal position to fourth

lesson preparation

materials

Master K-35

2 pieces of construction paper

2 small envelopes

work mats

the night before

 Use Master K-35 to make two sets of construction paper shapes. Put each set of piaces in a small envelope.

in the morning

Fill in the missing dates up to today's date on the calendar. Use the brown, red, red
pattern to color these squares. Today's date will be written and the square colored
during The Meeting.

THE MEETING

- Open the Meeting Book to November's calendar.
- · Point to the month at the top of the calendar.

"What month is it?"

"What letter does November begin with?"

"Where else do you see November on this page?"

• Point to the list of months to the left of the calendar.

"Let's spell the word 'November' together."

Ask your child to point to each letter as you spell the word together.

"What months have we used the Meeting Book?"

• Point to the year at the top of the calendar.

"What year is it?"

• Put a piece of paper under yesterday's day of the week in the list to the right of the calendar. The paper should cover the remaining days of the week.

"Yesterday was _____."

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- "What day of the week is it today?"
- Move the paper down to show today's day of the week.
- "Were you right?"
- "What letter does (day of the week) begin with?"
- "Where else do you see (day of the week) on this page?"
- · Point to today's day of the week on the calendar.
- "Let's spell (day of the week) together."
- · Ask your child to point to each letter as you spell the word together.
- Say the following once or twice a week:
- "Let's say the days of the week together."
- Point to the days across the top of the calendar.
- "Yesterday's date was November ____th."
- "What is today's date?"
- "What number will I write in today's date square?"
- "Let's count to see if you are right."
- · Point to each square as your child counts.
- · Write the date in the date square.
- "Today is (day of the week), November (date), (year)."
- "Let's say that together."
- Point to each part as you say this together.
- $"What colors \, are \, we \, using \, for \, our \, November \, calendar \, squares?" \quad brown \, and \, red$
- "What pattern are we using this month?" brown, red, red
- "What color do you think we will use to color today's square?"
- "Let's read our pattern together to check."
- Point to the squares as your child reads the colors.
- Ask your child to color the square.
- "Let's read our pattern another way."
- Point to the squares as your child reads "ABBABB"
- Point to the last arrow with a number in it.
- "This arrow tells us that this was the 34th day we used the Meeting Book."
- · Point to the next arrow.
- "What number should I write in this arrow?"

Math K · Lesson 35

- Write the number 35 in the arrow.
 - "Let's count the number of days we have used the Meeting Book."
- Point to the arrows as your child counts with you.

THE LESSON

Identifying Ordinal Position to Fourth

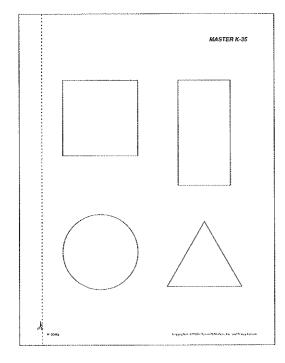
- "Today we are going to act out stories using shape pieces."
- "You will learn the special words we use to tell us each shape's place in line."
- Give your child a work mat and an envelope of shape pieces. Put an envelope of shape pieces and a work mat on the table in front of you.
 - "Take the shape pieces out of the envelope."
 - "What shape pieces do you have?" square, triangle, rectangle, circle
 - "How many shapes do you have?" 4
 - "We're going to pretend that our shape pieces are lining up to jump in a pool."
 - "Which shape do you think should be first in line?"
- · Ask your child to name a shape.
 - "Hold up your (shape)."
 - "Put the (shape) at the top of your mat."
- Demonstrate, using your pieces.
 - "This will be the first shape."
- "Which shape do you think should be second in line?"
- · Ask your child to name a shape.
- "Put the (shape) next in line."
- · Demonstrate, using your pieces.
 - "Which shape will be next in line?"
- · Ask your child to name a shape.
- "Put the (shape) next in line."
- "Which shape will be last?"
- "Put the (shape) in line."
- "Which shape is first?"
- "Which shape is second?"
- "Which shape is third?"

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- "Which shape is last?"
- "We can also say that the (shape) is fourth."
- "The shapes are in the pool and they are making a design."
- "Make a design with your shapes."
- "Now they are ready to line up to climb the ladder out of the pool."
- "Which shape will be first now?"
- · Ask your child to name a shape.
 - "Put the (shape) at the top of your mat."
 - "Which shape will be second?"
- · Ask your child to name a shape.
- "Put the (shape) in line."
- "Which shape will be third?"
- Ask your child to name a shape.
- "Put the (shape) in line."
- "Which shape will be fourth?"
- "Put the (shape) in line."
- "Point to the shape that is first."
- "Point to the shape that is second."
- "Point to the shape that is third."
- "Point to the shape that is fourth."
- "We're going to put our shape pieces away now."
- "Put your shape pieces in your envelope."
- Save the envelopes of shape pieces.

Math K · Lesson 35



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Lesson 79 – Seventh Lesson in March

ordering objects by length measuring length using nonstandard units

lesson preparation ----

materials

basket of linking cubes construction paper (yellow, blue, red, and green) work mat

the night before

• Cut out the following construction paper strips: blue = 1" × 3", yellow = 1" × 6", red = 1" × 9", and green 1" × 12".

in the morning

 Fill in the missing weekday dates up to today's date on the calendar: Use the green, white, orange pattern to color these squares. Today's date will be written and the square colored during The Meeting.

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THE MEETING

- Open the Meeting Book to March's calendar.
 - "What month is it?"
 - "Let's spell the word 'March' together."
- Ask your child to point to each letter as you spell the word together.
 - "Where else do you see March on this page?"
- Point to the list of months to the left of the calendar.
- "What letter does March begin with?"
- "What sound do we make for M?"
- "What months have we used the Meeting Book?"
- "How many months are in a year?"
- "Let's count to check."
- Count the month boxes together.
- "What is the first month we used the Meeting Book?"
- "What is the first month of the year?"

Math K · Lesson 79

- Point to the year at the top of the calendar.
 - "What year is it?"

NOTE: If today is Monday, insert the new dialogue listed at the end of The Meeting.

- Put a piece of paper under yesterday's day of the week.
 - "What day of the week is it today?"
- Move the paper down to show today's day of the week.
 - "Were you right?"
 - "Let's spell (day of the week) together."
- · Ask your child to point to each letter as you spell the word together.
- "Where else do you see (day of the week) on this page?"
- · Point to today's day of the week on the calendar.
 - "What letter does (day of the week) begin with?"
- "What sound do we make for (first letter of the day of the week)?"
- "How many days are in a week?"
- "Let's count to check."
- · Count the days of the week boxes together.
- Say the following once or twice a week:
- "Let's say the days of the week together."
- Point to the days across the top of the calendar.
- "Yesterday's date was March ____th."
- "What is today's date?"
- "What number will you write in today's date square?"
- "Let's count to see if you are right."
- Point to each square as your child counts.
- Ask your child to write the number in the square.
- "How do we say that when we are saying the date?"
- "Today is (day of the week), March (date), (year)."
- "Let's say that together."
- Point to each part as you say this together.
- "What colors are we using for our March calendar squares?" green, white, and orange
- "What pattern are we using this month?" green, white, orange
- "What color do you think you will use to color today's square?"
- "Let's read our pattern to check."

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- Point to the squares as your child reads the colors.
- · Ask your child to color the square.

"Let's read our pattern another way."

• Point to the squares as your child reads "ABCABCABC "

NOTE: If today is Friday, insert the new dialogue listed at the end of The Meeting.

· Point to the last arrow with a number in it.

"This arrow tells us that this was the 78th day we used the Meeting Book."

• Point to the next arrow.

"What number should I write in this arrow?"

- Write the number 79 in the arrow.
- Do the following twice a week:

"Let's count the number of days we have used the Meeting Book."

• Point to the arrows as your child counts with you.

NOTE: Do the following estimating and counting activity once a week.

 Use a collection of less than 100 items in a clear container. Items to be counted may be jelly beans, cereal, peanuts, baseball cards, paper clips, crayons, puzzle pieces, pennies, etc. Occasionally use more than 100 items.

"Let's try to estimate	how many	are in this container."
"How many	do you think	are in this container?"
"Let's count the	together.'	•
"Every time we have (pile)."	e ten,	we will put them in a small cup
• Remove the items one	at a time. Put ea	ch group of 10 items in a small cup

(or pile) as you count the items together.

"How many _____ did we have?"

"Let's count by 10's to see if we will have the same amount."

• Count by 10's with your child as you point to each cup (or pile). Count the extras by 1's.

"Today we will _____ at about (time to the hour)."

"Show that time on the clock."

Friday

"Do you know what tomorrow is?" Saturday

"Let's use our days of the week list to check."

Math K · Lesson 79

- "Where else do you see Saturday on this page?"
- "Saturday is the last day of the calendar week."
- Point to Saturday on the calendar.
 - "What letter does Saturday begin with?"
 - "What sound do we make for S?"
 - "What number will you write in Saturday's square?"
- Ask your child to write the number in the square.
 - "What color will you use to color Saturday's square?"
- · Ask your child to color the square.

Monday

- "What day of the week was it yesterday?" Sunday
- "Let's use our days of the week list to check."
- "Where else do you see Sunday on this page?"
- "Sunday is the first day of the calendar week."
- · Point to Sunday on the calendar.
 - "What letter does Sunday begin with?"
- "What sound do we make for S?"
- "What number will you write in Sunday's square?"
- Ask your child to write the number in the square.
- "What color will you use to color Sunday's square?"
- · Ask your child to color the square.

THE LESSON

Ordering Objects by Length Measuring Length Using Nonstandard Units

- "Today you will learn how to put strips of paper in order from shortest to longest."
- "After you do that, you will learn how to measure the strips using the linking cubes."
- Give your child the construction paper strips and a work mat.
 - "Are your strips of paper all the same?"
 - "How are they different?" color and length
 - "Now you will put these strips in order from shortest to longest."

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- "Which color strip is the shortest?"
- Point to the left side of the work mat.
 - "Put the shortest strip here."
- · Position the strip vertically.
- "Which color strip will you put next?" yellow
- "Where will you put it?" next to the blue
- Repeat with the last two strips.
- "Each strip is a little longer than the one before it."
- · Point to the differences in the lengths of the strips.
 - "Which color strip is the shortest?"
- "Which color strip is the longest?"
- "Now I will use linking cubes to measure one of the paper strips."
- "I will try to make a train the same length as the yellow strip."
- Snap together 5 linking cubes. (Use assorted colors.)
- · Align one end of the linking cube train with one end of the strip.
- "Is my train the same length as the strip?" no
- "How do you know?" it's too short
- "What should I do?" snap on more cubes
- Add 5 more linking cubes.
- Align one end of the linking cube train with one end of the strip.
 - "Is my train the same length as the strip?" no
- "How do you know?" it's too long
- "What should I do?" take off some cubes
- Take off 2 linking cubes.
- · Align one end of the linking cube train with one end of the strip.
- "Is my train the same length as the strip?" yes
- "How do you know?" both ends match
- "Which strip will need the most linking cubes?" green
- "Which strip will need the fewest linking cubes?" blue
- "Make a train the same length as the blue strip."
- · Allow time for your child to do this.
 - "How many cubes did you use?"
 - "Point to each cube as we count them together."
- Repeat, using the red strip and the green strip.



esson 109 – First Lesson in June

acting out some, some went away stories

lesson preparation -

materials

basket of teddy bear counters

Work mat

in the morning

If the month does not begin today, write the dates up to today's date on the calendar.
The dune color pattern on the date squares will be yellow, light green, light green, pink.
Color the squares with dates up to today's date. Today's date will be written and the square colored during The Meeting.

THE MEETING

- Open the Meeting Book to June's calendar.
- "This is a new month."
- "What month is it?"
- "What letter does June begin with?"
- "Is this an uppercase or a lowercase letter?"
- "Let's spell the word 'June' together."
- Ask your child to point to each letter as you spell the word together.
 - "Where else do you see June on this page?"
- Point to the list of months to the left of the calendar.
 - "Iune is the sixth month of the year."
- "How many months are in a year?"
- "Let's count to check."
- · Count the month boxes together.
- Point to the year at the top of the calendar.
- "What year is it?"
- "What digits did I use to write (year)?"
- "What day of the week is it today?"
- "Let's spell (day of the week) together."
- "Where else do you see (day of the week) on this page?"

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- Point to today's day of the week on the calendar.
 - "What letter does (day of the week) begin with?"
 - "What sound do we make for (first letter of the day of the week)?"
 - "Today you will write the date in the square under (day of the week)."
 - "Where do you think you will write the date?"
- · Ask your child to point to the appropriate square.
- "Today is June ."
- "What number should you write in the square?"
- · Ask your child to write the number in the square.
 - "How do we say that when we are saying the date?"
- "Today is (day of the week), June (date), (year)."
- Point to each part as you read the date.
 - "Let's say that together."
 - "What colors did we use for our May calendar squares?" blue, yellow, and green
 - "What was our pattern?" blue, yellow, yellow, green
 - "What did we call this pattern?" ABBC pattern
 - "In June, we will color our squares yellow, green, and pink."
 - "We will make a yellow, green, green, pink pattern."
 - "What do you think we will call this pattern?" ABBC
 - "What color do you think I will use to color today's square?"
- Color the square.
- Point to the last arrow on the page with May's calendar.
- "This arrow tells us that this was the 108th day we used the Meeting Book."
- Point to the first arrow in the bottom left-hand corner on the page with June's calendar.
- "What number should I write in this arrow?"
- Write the number 109 in the arrow.
- "Let's count the number of days we have used the Meeting Book."
- Point to the arrows, beginning with 1, as your child counts with you.

THE LESSON

Acting Out Some, Some Went Away Stories

"A few days ago we acted out stories using the teddy bear counters."

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Math K · Lesson 109

- "What happened in our stories?"
- "Today you will learn how to act out different stories."
- "Today we are going to pretend that the teddy bears are going to a carnival (amusement park)."
- "What types of rides do they have at a carnival?"
- "We will pretend that the work mat is a ride at a carnival."
- Give your child a work mat and the basket of teddy bear counters.
- "Put ten teddy bears in a line next to your mat."
- · Allow time for your child to do this.
- "We will pretend that the teddy bears are waiting in line to get on the ferris wheel (or a ride named by your child)."
- "Eight teddy bears got on the ferris wheel."
- "Show what happened."
- "When the ferris wheel stopped, some of the teddy bears got off."
- "How many teddy bears got off?"
- "Show this using the teddy bear counters."
- "How many teddy bears are on the ferris wheel now?"
- "When the ferris wheel stopped the next time, some more teddy bears got off."
- "How many teddy bears got off?"
- "Show this using the teddy bear counters."
- "How many teddy bears are on the ferris wheel now?"
- "At the next stop, all the rest of the teddy bears got off."
- "How many teddy bears got off?"
- "Show this using the teddy bear counters."
- "How many teddy bears are on the ferris wheel now?"
- "What happened in this story?"
- "There were some teddy bears on the ferris wheel and then some went away."
- "We call this a some, some went away story."
- Repeat several times using different numbers of bears and different carnival rides.
- "Make up a some, some went away story about the teddy bears at the carnival."
- Allow time for your child to make up several stories.

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		*******	MATH				
			Oral A	Assessm	ent Rec	ording I	Forms
Assessmen	it #1				Dat	e	
Countin	g Object	ts; Matc	hing Set	s of Obje	ects		
Using O	ne-to-Oı	ne Corre	esponde	nce			
link	A. • Arrange 8 unconnected blue linking cubes in a row. "Count the cubes in this row."		B. • Give your child 10 yellow cubes. "Make another row that is the same as my row of cubes." "How do you know they are the same?"				
Identify	ing and i	<u>.</u>	Shapes	B. "Poin		e	
"W	hat shape	is this?"	T				· · · · · · · · · · · · · · · · · · ·
square	triangle	circle	rectangle	square."	triangle."	circle."	rectangle."
Assessmen					Dat	e	
Matchin A. • Prov	ng Sets a vide 10 linkin w your child t	g cubes of c	one color.	• Give y arrar "Show	cubes on the cubes on the cubes on the cubes on the cube cube cubes on the cube cubes of the cub	ne work ma e number c om order. ober card t	t. ards hat tells the
A. • Prov • Shov (7,	n g Sets a ride 10 linkin	g cubes of o the number at a time.	one color. cards	• Give y arrar "Show numb	cubes on the cubes on the cubes on the cubes of the cubes	ne work ma e number c om order. ober card t on the mat.	t. ards hat tells the
A. • Prov • Shov (7,	ng Sets a ride 10 linkin w your child t 9, 0, 5) one	g cubes of o the number at a time.	one color. cards	• Give y arrar "Show numb	cubes on the cubes on the cubes of the cubes of	ne work ma e number c om order. ober card t on the mat. d 8 cubes.	t. ards hat tells the
A. • Prov • Shov (7, "Sho 7	ide 10 linkin w your child t 9, 0, 5) one ow me this n	g cubes of c the number the number at time. Umber of cu	one color, cards	• Give y arrar "Shot numb • Repe	cubes on the your child the ged in render of cubes cat with 6 ence	ne work ma e number c om order. ober card t on the mat. d 8 cubes.	t. ards hat tells the "
•	Assessment Counting Using Co A. • Arr link "Co Assessment Identify A. • Poi	Assessment #1 Counting Object Using One-to-Ot A. • Arrange 8 ur linking cubes "Count the cu Assessment #2 Identifying and the cumulation of the cumulati	Assessment #1 Counting Objects; Matc Using One-to-One Corre A. • Arrange 8 unconnecte linking cubes in a row. "Count the cubes in the Assessment #2 Identifying and Naming A. • Point to each shape. "What shape is this?"	Assessment #1 Counting Objects; Matching Set Using One-to-One Corresponder A. • Arrange 8 unconnected blue linking cubes in a row. "Count the cubes in this row." Assessment #2 Identifying and Naming Shapes A. • Point to each shape. "What shape is this?"	Assessment #1 Counting Objects; Matching Sets of Objecting One-to-One Correspondence A. • Arrange 8 unconnected blue linking cubes in a row. "How same "Count the cubes in this row." Assessment #2 Identifying and Naming Shapes A. • Point to each shape. "What shape is this?"	Assessment #1 Counting Objects; Matching Sets of Objects Using One-to-One Correspondence A. • Arrange 8 unconnected blue linking cubes in a row. "Count the cubes in this row." B. • Give your chile "Make anothe same as my re "How do you same?" "How do you same?" Assessment #2 Identifying and Naming Shapes A. • Point to each shape. "What shape is this?"	Assessment #1 Counting Objects; Matching Sets of Objects Using One-to-One Correspondence A. • Arrange 8 unconnected blue linking cubes in a row. "Count the cubes in this row." Assessment #2 Identifying and Naming Shapes A. • Point to each shape. "What shape is this?" Date

Math 1 Home Study Table of Contents

The table of contents indicates the **order of topics** covered in Math 1.

Examples of the development of topics can be seen in the Sample Lessons.

Lesson 1	Identifying Today's Date
Lesson 2	Making Towers for the Numbers 1-5
Lesson 3	Writing the Numbers 1, 4, and 5
Lesson 4	Making Towers for the Numbers 1–9; Ordering the Numbers 0–9
Lesson 5	Writing the Numbers 2, 3, and 7
Lesson 6	Identifying a Circle and a Square; Identifying the Number of Sides and Angles of a Square
Lesson 7	Graphing a Picture on a Pictograph; Identifying the Most and the Fewest on a Graph; Identifying Right and Left
Lesson 8	Writing the Numbers 0, 6, 8, and 9
Lesson 9	Ordering Sets from Smallest to Largest; Ordering Numbers from Least to Greatest; Identifying Fewest, Most
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Lesson 13	Writing the Number 12; Identifying a Triangle; Identifying the Number of Sides and Angles of a Triangle; Sorting by One Attribute
Lesson 14	Writing the Number 13; Making a Shape on the Geoboard; Identifying Inside and Outside
Lesson 15	Writing the Number 14; Acting Out and Drawing Pictures for Some, Some More and Some, Some Went Away Stories
Lesson 16	Writing the Number 15; Counting Pennies
Lesson 17	Writing the Number 16; Identifying the Season — Fall
Lesson 18	Writing the Number 17; Dividing a Solid in Half
Lesson 19	Writing the Number 18; Picturing and Combining Sets; Graphing a Picture on a Pictograph
Lesson 20	Assessment
-	
Lesson 21	Writing the Number 19; Writing Addition Number Sentences
Lesson 22	Writing the Number 20; Identifying Ordinal Position to Sixth
Lesson 23	Writing the Number 21; Addition Facts — Doubles to 10
Lesson 24	Writing the Number 22; Identifying a Rectangle; Identifying the Number of Sides and Angles of a Rectangle
Lesson 25	Writing the Number 23; Writing Number Sentences for Some, Some More Stories
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Lesson 27	Writing the Number 25; Identifying Lighter and Heavier Using a Balance	Lesson 55	Writing the Number 50; Identifying Odd and Even Numbers
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		Lesson Jo	Number
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Lesson 38	Writing the Number 35; Sorting Items and Creating a Graph	Lesson 65	Writing the Number 59; Identifying the Season — Winter
Lesson 39	Writing the Number 36; Weighing Objects Using Nonstandard Units	Lesson 66	Writing the Number 60; Writing Money Amounts Using the Cent Symbol; Paying for Items Using Dimes and Pennies
Lesson 40	Assessment	Lesson 67	Writing the Number 61; Dividing a Square into
		nedodir o	Halves
Lesson 41	Writing the Number 37; Addition Facts — Adding Zero	Lesson 68	Writing the Number 62; Subtracting Half of a Number
Lesson 42	Writing the Number 38; Covering a Design in Different Ways	Lesson 69	Writing the Number 63; Graphing Pieces Used to Cover a Design
Lesson 43	Writing the Number 39; Counting by 10's to 100	Lesson 70	Assessment
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Lesson 46	Writing the Number 42; Ordering Containers by Volume Identifying One-Cup Liquid	Lesson 72	Writing the Number 65; Using a Ruler to Draw a Line Segment
	Measure (SAMPLE LESSON)	Lesson 73	Writing the Number 66; Sorting Common Items
Lesson 47	Writing the Number 43; Counting by 2's	Lesson 74	Writing the Number 67; Adding Two-Digit Numbers Using Dimes and Pennies (Without Regrouping)
Lesson 48	Writing the Number 44; Telling Time to the Hour	Lesson 75	Writing the Number 68, Adding Two-Digit Numbers
Lesson 49	Writing the Number 45; Identifying Even Numbers to 20	LESSON D	Using Dimes and Pennies (Without Regrouping) (SAMPLE LESSON)
Lesson 50	Assessment	Lesson 76	Writing the Number 69; Addition Facts — Showing Doubles Plus One Facts
Lesson 51	Writing the Number 46; Identifying and Locating Numbers on the Hundred Number Chart	Lesson 77	Writing the Number 70; Addition Facts — Identifying the Doubles Plus One Facts
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	Identifying One Half and One Fourth	Lesson 80	Assessment

Math 1 Table of Contents (continued)

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	Grouping by 10's and 1's	Lesson 113	Writing the Number 102; Graphing Tags on a Bar
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Lesson 89	Writing the Number 81; Adding Ten to a Number	Lesson 117	Writing the Number 106; Measuring Line Segments
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Lesson 91	Writing the Number 82; Counting by 10's from a	Lesson 118	Writing the Number 107; Identifying Geometric Solids (Cylinders and Cubes)
	Single-Digit Number	Lesson 119	Writing the Number 108; Subtracting Ten from a Number
Lesson 92	Writing the Number 83; Adding Ten to a Number	Lesson 120	Assessment
Lesson 93	Writing the Number 84; Ordering Numbers to Fifty		
Lesson 94	Writing the Number 85; Addition Facts — Sums of Ten	Lesson 121	Writing the Number 109; Adding Three Single-Digit Numbers
Lesson 95	Writing the Number 86; Counting by 100's	Lesson 122	Writing the Number 110; Subtraction Facts —
Lesson 96	Writing the Number 87; Drawing Congruent Shapes and Designs		Differences of One
Lesson 97	Writing the Number 88; Measuring to the Nearest		Writing the Number 111; Drawing Polygons
	Inch Using a Ruler	Lesson 124	Writing the Number 112; Identifying and Counting Quarters
Lesson 98	Writing the Number 89; Subtraction Facts — Subtracting Two from a Number	Lesson 125	Writing the Number 113; Subtraction Facts —
Lesson 99	Writing the Number 90; Counting Nickels		Subtracting Using the Doubles Plus One Addition Facts
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Lesson 102	Writing the Number 92; Identifying Geometric Solids (Cones and Spheres)	Lesson 128	Writing the Number 116; Subtraction Facts — The Leftover Facts
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Lesson 105	Writing the Number 95; Subtraction Facts — Subtracting a Number from Ten		
Lesson 106	Writing the Number 96; Measuring Using Feet		
MANAGER CANAGES STREET STREET	Writing the Number 97, Identifying One Half, One Third, and One Sixth (SAMPLE LESSON)		
1 0000 100	Writing the Number OS, Addition Facts Adding		

Lesson 108 Writing the Number 98; Addition Facts — Adding

Lesson 109 Writing the Number 99; Identifying a Quart, Gallon,

and Liter; Estimating and Measuring the Capacity

Nine to a Number

of a Container in Cups

Notes on Math 1 Sample Lessons

On the following pages you will find three *Math 1* lessons. These are lessons taken from the *Math 1 Home Study Teacher's Manual*. The miniature pages pictured at the end of each lesson show the student materials which accompany each lesson and include answers for your convenience. These materials are found in the Student Workbook.

The charts below identify the components found in each lesson and describe how each component is used.

Lesson 46

Meeting	The Meeting Book is used to practice patterning, shapes, counting, time, money, and left/right.
Lesson	Each lesson begins with number writing. This lesson also uses containers to practice ordering by volume and identifying a 1-cup measure.
Fact Sheet	Subtraction is practiced.
Worksheet	Side A is completed with your assistance immediately following the lesson, while Side B is completed later in the day.

Lesson 75

Meeting	Counting increments have been added, and the pennies in the coin cup are tallied.
Assessment	A written assessment occurs every five lessons.
Lesson	Number writing includes finding the 10's and 1's in the number. Dimes, pennies, and grocery items are used to practice adding two-digit numbers.
Master 1-75	This master provides practice adding two-digit numbers.
Fact Sheet	Addition is practiced.
Worksheet	Number writing and story problems, along with other skills, are practiced every day.

Lesson 107

Meeting	Pennies are used for counting numbers over 100, and nickels and pennies are counted.
Lesson	Pattern blocks are used to show one half, one third, and one sixth.
Fact Sheet	Subtracting a number from 10 is practiced.
Worksheet	The lesson topic is practiced, along with concepts taught in earlier lessons.



esson 46

writing the number 42 ordering containers by volume identifying one-cup liquid measure

lesson preparation

materials

1-cup liquid measuring cup (preferably plastic)

5 empty containers

basin, funnel, and newspaper

water (approximately 3 gallons)

food coloring (optional)

masking tape

marker

linking cubes (10 each of red, green, blue, yellow, and black)

large fact cards (subtracting one facts)

Fact Sheet S 2.0

the night before

- Use five empty plastic containers. The containers should be of clearly different sizes.
 If possible, include liter, quart, half gallon, and pint or half pint containers. Soft drink, milk, shampoo, ketchup, syrup, or salad dressing bottles can be used. Prior to the lesson, use a piece of tape and a marker to label the five containers A, B, C, D, and E.
- Highlight the 1-cup line on the measuring cup with tape or a marker.

in the morning

- Food coloring in the water makes the water level in the containers easier to see. Use
 a basin or place ald newspapers on the floor or table to catch spills. A funnel can also
 be used to make pouring easier.
- Write the following number pattern on the meeting strip:

16, 17, 18, ___, ___,

Answer: 16, 17, 18, 19, 20, 21

Put 5 dimes in the coin cup.

THE MEETING

calendar

• Ask your child to identify the following:

```
year
month
shapes on the calendar
today's shape
```

shape pattern for the month

- · Ask your child to write the date on the calendar.
- · Ask your child to do the following:

```
identify today's day of the week identify the days of the week read the days of the week
```

"How many days of the week are there?"

"Let's count them."

"What are the weekdays?"

• Ask your child to write the full date on the meeting strip.

weather graph

- Ask your child to report and graph the weather.
- · Ask questions about the graph.

counting

- Count from 1 to 100 using the hundred number chart.
- Count backward from 20 to 1.

"Let's use our counting strip to help us count by 10's to 100."

- Point to each number on the counting strip as your child counts.
- Add another number to the number line.
- · Count to check.

number pattern

- Ask your child to identify and fill in the missing numbers.
- Read the number pattern together.

clock

• Ask your child to set the morning/afternoon/evening/night clock.

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coin cup

- "What coin do we have in the coin cup today?"
- "What do we count by when we count dimes?"
- Ask your child to slide and count the dimes in the coin cup.
- · Ask your child to write the money amount on the meeting strip.

right/left

• Continue to practice left and right once a week. Practice more often, if necessary.

THE LESSON

Writing the Number 42

- "The last number we practiced writing was the number 41."
- "What number do you think we will learn how to write today?"
- Write the number 42 on the chalkboard.
 - "What digits do you see in the number 42?"
- "How would you tell someone how to write the number 42?"
- "Which digit is on the left?"
- "Which digit is on the right?"

Ordering Containers by Volume Identifying One-Cup Liquid Measure

- Display the five containers so that your child can see them easily.
 - "Today you will learn how to order containers by volume."
- "I have five containers."
- "Look at them carefully."
- "We are going to fill each container with water."
- "The smallest container is the one that will hold the least amount of water."
- "Which container do you think is the smallest?"
- "Whv?"
- Encourage your child to discuss why he/she thinks a certain container will hold the least.
- Put that container on the far left.
- "Which container do you think is the smallest now?"

Math 1 · Lesson 46

- Put that container next to the one judged to have the least volume.
- Repeat with the other containers.
- Hold up a one-cup measuring cup.
- "We will use a measuring cup to find how many cups of water each container will hold."
- "Each time we fill this cup, we have one cup of water."
- Point to the highlighted one-cup line on the measuring cup.
- "We will fill the cup to this line for exactly one cup of water."
- Hold up the one-cup measuring cup and the container judged by your child to be the smallest.
 - "Let's estimate how many cups of water this container will hold."
 - "How many cups of water do you think it will take to fill this container?"
- Record on the chalkboard:

Container	Estimate	Actual
А		
В		
С		
D		
E		

- · Record your child's estimate on the chalkboard chart.
 - "Let's try it to see."
 - "You will keep track of how many cups of water we use."
- Give your child 10 red, 10 blue, 10 green, 10 yellow, and 10 black linking cubes.
- "Every time I pour a cup of water into this container, you will take one (color) linking cube."
- "The tower of (color) linking cubes will show how many cups of water we used to fill this container."
- "Count with me as I pour each cup of water into this container."
- Pour the water into the measuring cup and from the measuring cup into the
 first container. Estimate to the nearest cup. For example, if a little more
 than four cups of water was used, write "4 cups + a little." If four and a half
 cups were used, write "4 cups + a half cup." If a little less than five cups was
 used, write "5 cups a little."
- "How many cups of water did we use to fill this container?"
- Record the amount on the chalkboard chart. Stand the tower of linking cubes next to the container.
- Point to the next container in the row.

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- "Do you think this container will hold more or less water?"
- "How many cups of water do you think this container will hold?"
- · Record the estimate on the chalkboard.
- "Every time I pour a cup of water into the container, you will take one (color) linking cube."
- "The tower of (color) linking cubes will show how many cups of water we used to fill this container."
- "Count with me as I pour each cup of water into this container."
- "How many cups of water did we use to fill this container?"
- Record the amount on the chalkboard chart. Stand the tower of linking cubes next to the container.
- Repeat with the remaining containers, using a different color linking cube for each.
 - "Which container has the smallest volume?"
 - "How do you know?"
 - "Which container has the greatest volume?"
 - "How do you know?"
 - "Did we put the containers in order from smallest to largest?"
- · Adjust the order of the containers, if necessary.
 - "Let's look at our towers."
- Stand the towers next to each other.
 - "What do you notice?" the towers go up like steps
- Optional: Put the containers, the plastic measuring cup, and the basin in an area near a sink. Additional plastic containers can be added for your child to fill and compare. Allow time for your child to estimate, fill, and count the number of cups of water needed to fill each container.

CLASS PRACTICE

"Let's review the subtracting one facts."

- Hold up one subtracting one fact card at a time as your child says the problem and the answer.
- · Repeat several times.
- Give your child Fact Sheet S 2.0.
- Allow time for your child to complete the fact sheet.
- Correct the fact sheet with your child.

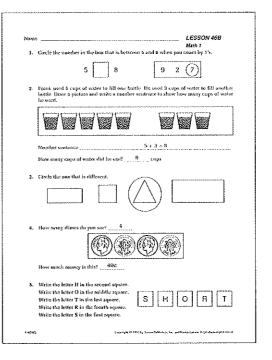
Math 1 · Lesson 46

WRITTEN PRACTICE

- Complete Worksheet 46A with your child.
- Complete Worksheet 46B with your child later in the day.

Note:	-	LESSON 46 Maih 1
Day	of the Week	
١.	Write the number ferry two.	

2.	Jason used 3 caps of water to fill one bottle. He used 2 cap	s of water to fill a
	Instite Draw a picture and wrate a number sentence to slow in used.	how many cups o
		9
	I been board board board	VDD0000
	Number sentence 3 + 2 = 5	
	How many cops of water did be use?	
3.	Circle the one that is different.	
	A A (A)	^
		/\
		Z\
4.	How many dimes do you see? 6	
	(3) (3) (3) (3) (3)	(255)
	(乾室)(瀬壑)(乾室)(瀬路)(乾室)(劉維)
		4,00
	How much money is this? GUC	
5.	Write the letter G in the fourth square.	
	Write the letter O in the second square.	
	Write the letter L in the first square.	N '



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L

esson 75

writing the number 68 adding two-digit numbers using dimes and pennies (without regrouping)

lesson preparation

materials

Written Assessment #14
sorted store items
Master 1-75
oup of 10 dimes and cup of 10 pennies
large fact cards (addition facts)

in the morning

Fact Sheet A 4.2

Write the following number pattern on the meeting strip:

25, 30, 35, ___, __, __ Answer: 25, 30, 35, 40, 45, 50

Put 28 pennies in the coin cup.

THE MEETING

calendar

• Ask your child to identify the following:

year

month

shapes on the calendar

today's shape

shape pattern for the month

- Ask your child to write the date on the calendar.
- Ask your child to do the following:

identify today's day of the week

identify the days of the week

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- "What day of the week was it yesterday?"
- "What day of the week will it be tomorrow?"
- Ask your child to identify the following: number of days in a week weekdays
- · Ask your child to write the full date on the meeting strip.

weather graph

- · Ask your child to report and graph the weather.
- · Ask questions about the graph.

counting

"Let's count by 5's to 50."

- Count from 29 to 65 using the hundred number chart.
- Count by 10's to 100.
- Count backward from 100 by 10's.
- Count by 2's to 20.
- Say the odd numbers to 19.
- Add another number to the number line.
- "We will count the numbers on the number line by 10's as far as we can and then count by 1's."
- Point to the multiples of 10 as you count together.
- "How many 10's did we count?"
- · Point to the digit in the tens' place.
- "And how many more did we count?"
- · Point to the digit in the ones' place.
- "What number is _____ tens and ____ more?"

number pattern

- Ask your child to identify and fill in the missing numbers.
- Read the number pattern together.

clock

- Ask your child to set the morning/afternoon/evening/night clock.
- Throughout the day, your child announces the time on the hour, sets the demonstration clock, and writes the digital time for each new hour on the chalkboard.

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Math 1 · Lesson 75

coin cup

"Stack the pennies from the coin cup in groups of five and make tally marks to show the number of pennies."

- · Allow time for your child to do this.
- Point to each group of tally marks as you count by 5's and 1's with your child.
- · Ask your child to record the amount of money on the meeting strip.

right/left

• Continue to practice left and right once a week. Practice more often, if necessary.

ASSESSMENT

Written Assessment

- Give your child Written Assessment #14.
- Read the directions for each problem. Allow time for your child to complete each problem before continuing.
- Correct the paper, noting your child's mistakes on the **Individual Recording**Form. Review the errors with your child.

THE LESSON

Writing the Number 68

"The last number we practiced writing was the number 67."

"What number do you think we will learn how to write today?"

· Write the number 68 on the chalkboard.

"What digits do you see in the number 68?"

"How many dimes and pennies will we use to make 68¢?"

• Use dimes and pennies to demonstrate.

"How many groups of 10 are in 68?"

"How many extra 1's do we have?"

"Let's count by 10's and 1's to check."

Adding Two-Digit Numbers Using Dimes and Pennies (Without Regrouping)

"Today you will continue to learn how to add two-digit numbers using dimes and pennies."

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"We will buy items at our store."
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"The cashier will write the name of the store, the names of the items, and the prices on the receipt."

"The customer will use dimes and pennies to pay for the items."

"They will work together to count the money the customer spent altogether."

"The cashier will write the total amount of money on the receipt next to the word 'total.' "

"Let's try that."

"You will be the cashier."

- Draw a receipt on the chalkboard.
- Choose 2 items from the classroom store.

"I will buy these two items."

"What will you write on the receipt?" name of the store, names of the items, prices

· Allow time for your child to do this.

"Let's predict how many dimes and pennies I will need to buy these items."

"How many pennies do you think I will give you altogether?"

"How do you know?"

"How many dimes do you think I will give you altogether?"

"How do you know?"

"Now I will use dimes and pennies to show the cost of each item."

- Put the money for each item in front of the item.
 - "Now I will put all the pennies together and all the dimes together."
- Put the pennies together and the dimes together.

"Now we will count to see how many pennies I used altogether."

- · Count the pennies with your child.
- "Was your prediction correct?"
- "Now we will count to see how many dimes I used altogether."
- · Count the dimes with your child.

"Was your prediction correct?"

"We have ____ dimes and ____ pennies."

"How much money is this altogether?"

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[&]quot;We will take turns being the cashier and the customer."

[&]quot;The customer will choose two items in the store to buy and bring them to the cashier."

Math 1 · Lesson 75

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• Record the total amount on the chalkboard receipt.
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- Ask your child to describe what to write on the chalkboard receipt.
- Fill in the name of the store, the names of the items, and the prices on the receipt.

"Let's try to predict how many pennies and dimes you will give me."

"Now you will show each of these amounts using dimes and pennies."

• Ask your child to put the money for each item in front of the item.

"Now you will put all the dimes together and all the pennies together."

"We have ____ dimes and ____ pennies."

• Record the total amount on the chalkboard receipt.

"Now we will put the items neatly back on the shelves."

"Let's practice buying some more items from our store."

"We will take turns being the cashier and the customer."

- Use Master 1-75.
- Make additional copies of Master 1-75, if desired.

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[&]quot;Now we will trade jobs."

[&]quot;I will be the cashier and you will be the customer."

[&]quot;I will return my two items while you select the two items you want to buy."

[&]quot;I will fill in the receipt."

[&]quot;How will I do that?"

[&]quot;How many pennies do you think you will give me altogether?"

[&]quot;How do you know?"

[&]quot;How many dimes do you think you will give me altogether?"

[&]quot;How do you know?"

[&]quot;How many pennies did you use?"

[&]quot;Let's count them together."

[&]quot;Was your prediction correct?"

[&]quot;How many dimes did you use?"

[&]quot;Let's count them together."

[&]quot;Was your prediction correct?"

[&]quot;How much money is this altogether?"

[&]quot;How will I write this on the receipt?"

CLASS PRACTICE

- Use the large fact cards to practice the addition facts.
- Give your child Fact Sheet A 4.2.
 - "What number facts do you see?"
 - "What strategies will you use to find the answers?"
- Correct the fact sheet with your child.

WRITTEN PRACTICE

- Complete Worksheet 75A with your child.
- Complete Worksheet 75B with your child later in the day.

Math 1 · Lesson 75

Name Date					ASSESS LESSON Math 1	
1.	Peggy counted six b a number sentence t	lue price tags a n show the nur	nd two yellou other of tags sh	price tegs. I	Draw the togs	and writ
	(B)	(B)	(e t)		€¥]	
	€ B	(B)	(B)		€Y]	
	Number sentence	G	<.2 = 8			
	How many lags did	Peggy count?	gpaR			
2.	What day of the wee	k is it today?				
3.	Write a number was	d that has 3 let	ters			
	Write a number wo:	d that has 4 fer	ters			
4.	Write the answers					
	5 7	9	5	8	6	8
	$\frac{-0}{5}$ $\frac{-7}{0}$	9 + 1 10	7	0	6	10
s.	Finish the pattern.					
	45, 46, 47,	48 , 49	, 50	<u>51 . 52</u>	53.	54_
Б.	Number the cluck fa	uw-				
	Show two nielock a	a the clocks.	<u> </u>	1 18 10	1	
	2:0	<u></u>	- € 10	ne"	<u>".</u> "	
	2:0	U]	W.s	•	1	
				1 6 5]	

		 MASTER 1-75 Math 1
+	otal	+Total
+	otal	+

flato	LESSON 75A (Draw a line regment for your name) Math 1
Day	f the Work
	Write the number sixty-eight two more times. How many digits are on the line? . B
1.	
	-68-634
_	
2.	Donald used 5 green pattern blocks and 3 blue pattern blocks to make a design, took off 1 green pattern block. Draw a picture to show how many green pattern.
	blocks are in his design now.
	Number sentence 5 - 1 = 4
	How many green pattern blocks are in his design now? 4 green pattern blocks
	tion, many from boneur discus are in any markin and a second form in most con-
3.	Draw tally marks to show the number of children in your class.
	L
4.	Choose 4 even numbers.
4.	Write them in the circles. Add 1 to each number. + 1 + 1 + 1 + 1
4.	Write them in the circles. Add 1 to each number. + 1 + 1 + 1 + 1 At the answers.
4.	Write them in the circles. Add t to coch number. Find the answers.
	With them in the circles. Add 1 to oak monther. Find the ansvers. Act the ansvers. even or odd numbers. dd:
	White them in the circles. Add 1 to oak hounder.
	White them in the circles. Add 1 to oak monther.
5.	White them in the circles. Add 1 to oak hounder.
5.	White them in the circles. Add 10 oo she monther.

Nam	e									LES Moti	SON h (75 B
1.	Fill in the	mizzin	g man	bers.								
	ſ	61	62	63	64	65	66	G7	68	69	70]
		71	72	73	74	75	76	77	78	79	80	j
2.	Elice used took off t blocks are	green	patte	m blo								
		X	B	. A	s 🙆	ΛĜ	1	Λ		5] [0	
										2,	j~attorii	Hocks
3.	Draw tally How many					or of p	ople s			-	•	blocks
		eadly a	marks mmbe e circl numb	did ye	ou drav	or of p	ople s			-	•	O
4.	How many Choose 4 Write thom Add 1 to Find the an	edd a i is tla each issuers work d num	marks anmbe e circl numb i.	did ye	on dray	+ [)	the liv	e in yo	Our hou) +	
4.	How many Choose 4 Write them Add 1 to Find the or Are the and cyen or othe thow many	eally a odd a r in the cauli rswers dwars dwars dimen	marks number circl numbers? s and p	ever	s will	t G	1 dim	+ 1	e in yo	our hou) + +	_ _ _
4.	How many Choose 4 Write thom Add 1 to Find the or Are the one even or oth thow many Write the a	edd a rin the cauli sawers sawers d num	marks another coincid numb in bors? s and j	did ye	s will	+ + 4 :	1 dim	the liv	e in yo	our hou) + + 	9
4.	How many Choose 4 Write them Add 1 to Find the or Are the and cyen or othe thow many	edd a rin the cauli sawers sawers d num	marks another coincid numb in bors? s and j	did ye	s will	+ + 4 :	1 dim	the liv	e in yo	our hou) + + 	9

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writing the number 97 identifying one half, one third, and one sixth

lesson preparation

materials

pattern blocks

large fact cards (subtracting a number from ten facts)

Fact Sheet S 6.0

in the morning

Write the following number pattern on the meeting strip;

Answer: 39, 40, 41, 42, 43, 44

Put 3 dimes and 2 pennies in the coin cup.

THE MEETING

calendar

· Ask your child to identify the following:

year

month

shapes on the calendar

today's shape

shape pattern for the month

- Ask your child to write the date on the calendar.
- Ask your child to do the following:

identify today's day of the week, yesterday's day of the week, and tomorrow's day of the week

read the days of the week

identify the weekdays

identify the number of days in a week

Ask your child to write the full date on the meeting strip.

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Math 1 · Lesson 107

weather graph

- · Ask your child to report and graph the weather.
- · Ask questions about the graph.

counting

- Say the "Counting by 10's Rap" on **Master 1-91** together. Point to the numbers on the hundred number chart as your child counts.
- Count by 100's to 1,000.
- Count by 5's to 50.
- Count by 10's to 100.
- Count backward from 100 by 10's.
- Say the odd numbers to 19.
- Say the odd numbers backward from 19.
- Ask your child to identify the digits to use to write the next number on the number line.
- Ask your child to identify the total number of pennies needed to show this number.
 - "We have 100 pennies in this covered container."
 - "How many more pennies do we need?"
 - "Put the extra pennies in this cup."
- Count on from 100 to count the total number of pennies with your child.

number pattern

- · Ask your child to identify and fill in the missing numbers.
- Read the number pattern together.

clock

- Ask your child to set the morning/afternoon/evening/night clock.
- Throughout the day, your child announces the time on the hour and the half hour, sets the demonstration clock to show the time, and writes the digital time on the chalkboard.

coin cup

- "Today there are only nickels and pennies in the coin cup."
- "How many nickels are there?"
- "How many pennies are there?"
- "When we count money, we begin with the coin that is worth the most."
- "Which coin will you count first?" nickel

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• Ask your child to count the nickels and pennies and record the amount of money on the meeting strip.

right/left

 Continue to practice left and right once a week. Practice more often, if necessary.

THE LESSON

Writing the Number 97

- "The last number we practiced writing was the number 96."
- "What number do you think we will learn how to write today?"
- Write the number 97 on the chalkboard.
 - "What digits do you see in the number 97?"
 - "How many dimes and pennies will we use to make 97¢?"
- Use dimes and pennies to demonstrate.
 - "How many groups of 10 are in 97?"
 - "How many extra 1's do we have?"
- "Let's count by 10's and 1's to check."

Identifying One Half, One Third, and One Sixth

- "Today you will learn how to identify one half, one third, and one sixth."
- Hold up the yellow pattern block.
 - "We will pretend that this is a cake."
 - "The other color pattern blocks are the frosting."
- "What color pattern blocks do you think we can use to completely cover the top of the cake with frosting without having any frosting drip over the sides?"
- "Let's try it to see."
- "Take three yellow cakes."
- "Try to cover each cake with frosting of only one color."
- "Remember, you can not have empty spaces or frosting dripping over the edges."
- · Give your child a basket of pattern blocks.
- "What color frosting did you use on your cakes?"
- "Do you see the lines on your cakes?"
- "Trace the lines on one of your cakes with your finger."

Math 1 · Lesson 107

- "We'll pretend that the lines show where you cut your cake."
- "Do you have a cake with exactly two pieces?"
- "What color frosting does the cake have?" red
- "We call each piece one half."
- "Do you have a cake with exactly three pieces?"
- "What color frosting does the cake have?" blue
- "We call each piece one third because the cake has been cut into three equal pieces."
- "Do you have a cake with exactly six pieces?"
- "What color frosting does the cake have?" green
- "We call each piece one sixth because the cake has been cut into six equal pieces."
- "Wipe the frosting off your cakes."
- Hold up a yellow pattern block covered by one red pattern block.
- "How much of my cake did I frost?" one half
- "Frost one half of your cake."
- Allow time for your child to cover the yellow pattern block with a red pattern block.
- "Now frost the other half of your cake."
- "How much of the cake is frosted?" one whole or two halves
- "Wipe the frosting off your cake."
- Hold up a yellow pattern block covered by one blue pattern block.
- "I frosted one third of my cake."
- "Frost one third of your cake."
- Allow time for your child to cover the yellow pattern block with a blue pattern block.
 - "Frost another third of your cake."
 - "How many thirds of your cake are frosted now?" two thirds
 - "Frost another third of your cake."
- "How many thirds of your cake are frosted now?" three thirds
- "Now the whole cake is frosted."
- "Wipe the frosting off your cake."
- Hold up a yellow pattern block covered by one green pattern block.
 - "I frosted one sixth of my cake."
 - "Frost one sixth of your cake."
- Allow time for your child to cover the yellow pattern block with a green pattern block.

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"Frost another sixth of your cake."

"How many sixths of your cake are frosted now?" two sixths

• Repeat, adding one sixth at a time.

"If a cake has two equal pieces, what will we call each piece?" one half
"If a cake has three equal pieces, what will we call each piece?" one third
"If a cake has six equal pieces, what will we call each piece?" one sixth
"Put the pattern blocks in the basket."

CLASS PRACTICE

"Let's practice the subtracting a number from ten facts together."

- Use the large subtraction fact cards. Include 10-0, 10-1, 10-2, and 10-5 fact cards also.
- Give your child Fact Sheet S 6.0.
- · Correct the fact sheet with your child.

WRITTEN PRACTICE

- Complete Worksheet 107A with your child.
- Complete Worksheet 107B with your child later in the day.

Name	(Draw a 4-inch line segment.) LESSON 10:
Date	***************************************
Day 6	d the Week
1.	Write the number ninely seven four more times. How many digits did you nice?
2.	Dualith wrote five addition examples. Then he wrote three more addition examples in wrote.
	Write a number sentence to share have many examples Daniel overte 5 + 3 = 8 How many examples is that y = R = examples
3.	Point to the cake that is divided and holves. Point to the cake that is divided and holves. Cofter one half of that cake red. Point to the cake that is divided must thirds. Cofter one that of the cake that. Point to the cake that is divided must hirds. Cofter one third of the cake them.
4.	Color the premies brown. How much money is this?27c
5.	Show half past cloven on the clock.
	Find the answers. $10 - 6 = 4$ $10 - 8 = 2$
6.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Date										Mai	950N 107E
١.	Fill to the	missir	ıg anım	liers.							
	- 1	81	82	83	84	85	86	87	88	89	90
	Ì	91	92	93	94	95	96	97	98	99	100
	Write a nu How many	Show milor s exam	scotons spiles is	ample	s she w	4 + 2	ny exar k = 6	mpšes I	Cothy:	wrote	nusii aubtras
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	Paint to 45 Color one 1 Paint 10 15	e rake third c e rake half of	that is that is the cu	alivid olerbl elivid ke red	ed anti on ed anti e) balve	y is th	: 	186	10	
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Math 2 Home Study Table of Contents

The table of contents indicates the **order of topics** covered in Math 2.

Examples of the development of topics can be seen in the Sample Lessons.

Lesson 1	Reading and Identifying Numbers to 100; Identifying Left and Right
Lesson 2	Graphing Data on a Graph; Identifying One More and One Less Than a Number
Lesson 3	Telling Time to the Hour
Lesson 4	Addition Facts — Doubles to 20
Lesson 5	Counting by 10's to 100; Writing Numbers to 100
Lesson 6	Identifying the Attributes of Pattern Blocks
Lesson 7	Creating and Reading a Repeating Pattern; Identifying Ordinal Position to Fifth
Lesson 8	Identifying and Acting Out Some, Some More Stories; Comparing Numbers to 50
Lesson 9	Covering Pattern Blocks With Equal Size Pieces; Addition Facts — Adding One
Lesson 10	Covering a Design Using Pattern Blocks
Lesson 11	Identifying and Acting Out Some, Some Went Away Stories
Lesson 12	Numbering a Clock Face; Determining Elapsed Time (One Hour)
Lesson 13	Addition Facts — Adding Zero
Lesson 14	Identifying Ordinal Position to Twelfth
Lesson 15	Identifying Weekdays and Days of the Weekend
Lesson 16	Creating and Reading a Pictograph
Lesson 17	Identifying Odd and Even Numbers
Lesson 18	Identifying Common Geometric Shapes
Lesson 19	Identifying Practional Parts of a Whole
Lesson 20	Creating a Color Pattern
Lesson 21	Addition Facts - Adding Two
Lesson 22	Identifying and Sorting Common Geometric Shapes by Attribute
Lesson 23	Drawing Pictures and Writing Number Sentences for Some, Some More, and Some, Some Went Away Stories
Lesson 24	Dividing a Shape in Half; Shading One Half of a Shape
Lesson 25	Dividing a Square in Half Two Ways; Telling Time to the Half Hour
Lesson 26	Reading a Thermometer to the Nearest Ten Degrees; Addition Facts — Doubles Plus One
Lesson 27	Addition Facts — Doubles Plus One
Lesson 28	Counting Dimes and Pennies
Lesson 29	Creating and Reading a Bar Graph; Identifying Missing Addends
Lesson 30	Identifying Geometric Shape Pieces that Differ in One Way
Laccon 21	Tallying, Counting by Rives

- Lesson 31 Tallying; Counting by Fives
- Lesson 32 Identifying Horizontal, Vertical, and Oblique Lines

Lesson 33	Addition Facts — Sums of Ten	Lesson 66	Adding Two-Digit Numbers Using Dimes and Pennies (Part 1)
Lesson 34	Dividing a Whole into Halves, Fourths, and Eighths	Lesson 67	Adding Two-Digit Numbers Using Dimes and
Lesson 35	Adding Ten to a Multiple of Ten; Finding Missing Numbers on a Piece of the Hundred Number	Lesson 07	Pennies (Part 2)
	Chart	Lesson 68	Subtracting Two from a Number
Lesson 36	Identifying Pairs	Lesson 69	Reading a Thermometer to the Nearest Two Degree
Lesson 37	Measuring with One-Inch Tiles	Lesson 70	Identifying and Creating Similar Shapes and Designation
Lesson 38	Identifying Tens and Ones		
Lesson 39	Identifying Halves, Fourths, and Eighths of a Whole; Creating and Reading a Bar Graph	Lesson 71	Adding Two-Digit Numbers with Trading Using Dimes and Pennies (Part 1)
Lesson 40	Identifying Geometric Shape Pieces that are Alike in Only One Way	Lesson 72	Adding Two-Digit Numbers with Trading Using Dimes and Pennies (Part 2)
-		Lesson 73	Subtraction Facts — Subtracting Nine
Lesson 41	Naming Fractional Parts of a Whole (SAMPLE LESSON)	Lesson 74	Measuring and Drawing Line Segments to the Nearest Half Inch
Lesson 42	Addition Facts — Adding Nine	Lesson 75	Using the Addition Algorithm (Part 1)
Lesson 43	Trading Pennies for Dimes	Lesson 76	Using the Addition Algorithm (Part 2)
Lesson 44	Weighing Objects Using Nonstandard Units	Lesson 77	Representing and Writing Mixed Numbers
Lesson 45	Subtracting Half of a Double	Lesson 78	Ordering Three-Digit Numbers
Lesson 46	Measuring to the Nearest Inch Using a Ruler	Lesson 79	Representing Three-Digit Numbers Pictorially
Lesson 47	Adding Ten to a Two-Digit Number	Lesson 80	Identifying and Creating Overlapping Geometric
Lesson 48	Counting Nickels; Identifying Similarities and Differences of Coins		Designs
Lesson 49	Subtracting a Number from Itself; Subtracting One;	Lesson 81	Writing a Three-Digit Number for a Model
Lesson 50	Subtracting Zero Finding the Area of Shapes Using Pattern Blocks	Lesson 82	Identifying and Writing Addition and Subtraction Fact Families
		Lesson 83	Subtraction Facts — Differences of 1, 2, and 9
Lesson 51	Creating and Reading a Venn Diagram	Lesson 84	Telling and Showing Time to Five-Minute Intervals
Lesson 52	Identifying a Line of Symmetry; Creating a Symmetrical Design	Lesson 85	Adding Three Two-Digit Numbers with a Sum Less Than 100
Lesson 53	Subtracting Ten from a Two-Digit Number	Lesson 86	Estimating and Counting Large Collections; Group-
Lesson 54	Ordering Two-Digit Numbers		ing by 10's and 100's
Lesson 55	Drawing Lines Using a Ruler; Drawing a Number Line	Lesson 87 Lesson 88	Subtraction Facts — Subtracting a Number from Te Creating a Bar Graph with a Scale of Two
Lesson 56	Measuring to the Nearest Foot		(SAMPLE LESSON)
Lesson 57	Making Geometric Shapes on a Geoboard; Identify- ing the Angles of a Shape	Lesson 89	Writing Number Sentences to Show Equal Groups; Multiplying by Ten
Lesson 58	Addition Facts — Last Eight Facts	Lesson 90	Covering Designs with Tangram Pieces
Lesson 59	Identifying 1-Cup and 1/2-Cup Measuring Cups, Tablespoons, Teaspoons, and 1/2 Teaspoons;	Lesson 91	Writing Numbers in Expanded Form
Lesson 60	Reading a Recipe Creating Congruent Shapes	Lesson 92	Subtraction Facts — Subtracting Using the Doubles Plus One Facts
Lesson 61	Creating and Reading a Venn Diagram	Lesson 93	Writing Money Amounts Using \$ Signs and \$ Symbols
Lesson 62	Reading a Recipe; Measuring Ingredients for a	Lesson 94	Measuring Height in Feet and Inches
Lesson 63	Recipe Identifying a.m. and p.m.; Identifying Noon and	Lesson 95	Adding Two-Digit Numbers with a Sum Greater Than 100
Lesson U)	Midnight; Identifying Dozen and Half Dozen	Lesson 96	Finding One Half of a Set of an Even Number of
Lesson 64	Adding Three or More Single-Digit Numbers		Objects

Lesson 65 Writing Fractions Using Fraction Notation

Math 2 Table of Contents (continued)

Lesson 97	Finding One Half of a Set of an Odd Number of Objects
Lesson 98	Counting Quarters
Lesson 99	Multiplying by One; Multiplying by One Hundred
Lesson 100	Finding Area Using 1 ⁿ Color Tiles
Lesson 101	Subtraction Facts — Last Sixteen Facts
Lesson 102	Using Comparison Symbols (>, <, and =)
Lesson 103	Identifying Geometric Solids (Cone, Cube, Sphere, Cylinder, Rectangular Solid, and Pyramid)
Lesson 104	Adding Three Two-Digit Numbers with a Sum Greater Than 100
Lesson 105	Measuring and Drawing Line Segments Using Centimeters
Lesson 106	Multiplying by Five
Lesson 107	
Lesson 108	Subtracting Two-Digit Numbers Using Dimes and Pennies (Part 2)
Lesson 109	Subtracting Two-Digit Numbers (Part 1)
Lesson 110	Covering the Same Design in Different Ways Using Tangram Pieces
Lesson 111	Subtracting Two-Digit Numbers (Part 2)
Lesson 112	Measuring Weight Using Pounds
Lesson 113	Finding Perimeter
Lesson 114	Writing Observations from a Graph
Lesson 115	Identifying Parallel Lines
Lesson 116	Multiplying by Two; Acting Out Equal Groups Stories
Lesson 117	Counting Quarters, Dimes, Nickels, and Pennies; Showing Money Amounts Using Quarters, Dimes, Nickels, and Pennies
Lesson 118	Rounding to the Nearest Ten
Lesson 119	Acting Out Equal Groups Stories; Drawing Pictures to Show Equal Groups
Lesson 120	•

Lesson 121	Making and Labeling an Array
Lesson 122	Identifying Right Angles
Lesson 123	Writing Number Sentences for Equal Groups Stories
Lesson 124	Multiplying by Three
Lesson 125	Identifying Intersecting Lines, Identifying Perpense
	dicular Lines (SAMPLE LESSON)
Lesson 126	Writing Number Sentences for Arrays
Lesson 127	Writing the Date Using Digits
Lesson 128	Locating Points on a Coordinate Graph
Lesson 129	Multiplying by Four
Lesson 130	Creating Two Graphs Using Dominoes

Lesson 131 Doubling a NumberLesson 132 Dividing by Two

Notes on Math 2 Sample Lessons

On the following pages you will find three *Math 2* lessons. These are lessons taken from the *Math 2 Home Study Teacher's Manual*. The miniature pages pictured at the end of each lesson show the student materials which accompany each lesson and include answers for your convenience. These materials are found in the Student Workbook.

The charts below identify the components found in each lesson and describe how each component is used.

Lesson 41

Meeting	The Meeting Book is used to practice patterning, graphing, counting, time, temperature, money, and problem solving.
Lesson	Construction paper fraction pieces are used to practice naming fractional parts of a whole.
Fact Sheet	Addition is practiced.
Worksheet	Side A is completed with your assistance immediately following the lesson, while Side B is completed later in the day.

Lesson 88

Meeting	Temperature is plotted on a line graph, and counting and money practice are becoming more complex. Fact family practice has been added.
Lesson	Pennies are used to create a bar graph.
Master 2-88	This master is used to tally and graph the pennies.
Fact Sheet	Subtracting a number from 10 is practiced.
Worksheet	Tallying and graphing (the lesson topic) is practiced, along with concepts taught in earlier lessons.

Lesson 125

Meeting	Counting increments have been added, and patterning and money counting are more complex.
Assessment	A written assessment occurs every five lessons.
Lesson	A geoboard is used to make intersecting and perpendicular lines.
Master 2-125	Geoboard lines are copied on this master.
Fact Sheet	Multiplying by 3 is practiced.
Worksheet	Story problems are practiced every day. Other problems practice old and new concepts.



naming fractional parts of a whole

lesson preparation
materials
fraction pieces from Lesson 34
Fact Sheet A 6.2
In the morning
• Write the following in the pattern box on the meeting strip:
□, □, □, □, □, □, □, □, □
Answert Ø, D, Ø, D, Ø, Ø, Ø, Ø
• Write 47¢ on the meeting strip. Provide a cup of 10 dimes and a cup of 10 pennies.

THE MEETING

calendar

- · Ask your child to write the date on the calendar and meeting strip.
- · Ask your child the following:

date	days ago,	date	days from	now		
day of the	week	_ days ago,	day of the	week	_ days from	now
months of	the year,	th mo	nth, month	before, r	month after	

• Record on the meeting strip a special event and the number of days until it occurs.

weather graph

- Ask your child to color the graph and write the temperature to the nearest ten degrees in the box he/she colored.
- Ask questions about the graph.

counting

- Count by 10's to 200 and backward from 200 by 10's.
- Count by 5's to 100 and backward from 50 by 5's.

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Math 2 · Lesson 41

- Say the even numbers to 30 and backward from 30.
- Say the odd numbers to 29 and backward from 29.

graph questions

• You and your child each ask a question about any of the graphs.

patterning

Ask your child to do the following:
 identify the pattern (repeating, continuing, or both)
 identify the shapes to complete the pattern
 read the pattern

money

- Ask your child to put the dimes and pennies in the coin cup.
- Count the money in the coin cup together.

clock

- Ask your child to set the clock on the half hour or hour.
- Ask the following:

time shown on the clock
time one hour ago and time one hour from now

- Ask your child to write the digital time on the meeting strip.
- Record on the meeting strip the time an activity will occur.

number of the day

• Write three number sentences for the number of the day on the meeting strip.

THE LESSON

Naming Fractional Parts of a Whole

"Today you will learn how to name fractional parts of a whole."

"A few days ago we cut and tasted apples."

"When we cut our apples, how did we cut them?"

"Today we will pretend that our circle fraction pieces are apples."

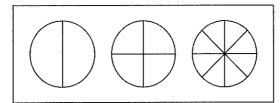
• Give your child the circle fraction pieces from Lesson 34.

"Let's pretend that the yellow circle is the whole apple."

"Which color piece can we use to show one half of the apple?" blue

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- "We call each blue piece one half."
- "Which color piece can we use to show one fourth of the apple?" red
- "We call each red piece one fourth."
- "What are two red pieces called?" two fourths
- "What are three red pieces called?" three fourths
- "What are four red pieces called?" four fourths
- "How many green pieces will we need to cover the apple?" 8
- "Use the green pieces to cover the apple."
- "What is one green piece called?" one eighth
- "What are two green pieces called?" two eighths
- "What are three green pieces called?" three eighths
- Continue to eight pieces.
- "Cover the yellow apple with two red pieces."
- "How much of the whole apple is covered?" two fourths
- "What other piece is the same size?" one half (blue)
- "Cover the two fourths with the one half."
- "One half of an apple is the same amount as two fourths of an apple."
- "Cover the yellow apple with two green pieces."
- "How much of the whole apple is covered?" two eighths
- "What other piece is the same size?" one red piece
- "Cover the two eighths with the one fourth."
- "One fourth of an apple is the same amount as two eighths of an apple."
- "Cover the yellow apple with four green pieces."
- "How much of the whole apple is covered?" four eighths
- "What other piece is the same size?" one blue piece
- "Cover the four eighths with the one half."
- "One half of an apple is the same amount as four eighths of an apple."
- "We will use the fraction pieces again."
- "Put them back in the bag."
- Draw the following on the chalkboard:



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Math 2 · Lesson 41

- "How many pieces are in my first circle?" 2
 "What will we call each piece?" one half
- · Shade one half of the circle.
 - "How much of my circle is shaded?" one half
- Write "one half" below the first circle.
- "How many pieces are in my second circle?" 4
- "What will we call each piece?" one fourth
- · Shade two fourths of the circle.
- "How much of my circle is shaded?" two fourths
- Write "two fourths" below the second circle.
- "How many pieces are in my third circle?" 8
- · Shade four eighths of the circle.
- "What will we call each piece?" one eighth
- "How much of my circle is shaded?" four eighths
- Write "four eighths" below the third circle.
- Repeat with different amounts shaded, if desired.
- Save the circle fraction pieces for use in Lesson 65.

CLASS PRACTICE

number fact practice

- Use the fact cards to practice the addition facts with your child.
- Give your child Fact Sheet A 6.2.
- Time your child for one minute.
- · Correct the fact sheet with your child.
- Record the score.
- Allow time for your child to complete the unfinished facts.
- "On the back of the fact sheet, write the numbers from 95 to 120."

Written Practice

- · Complete Worksheet 41A with your child.
- Complete Worksheet 41B with your child later in the day.

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Math 2 · Lesson 41

Date		Meih 2	D>te	LESSON 41B Main 2
Stephania and four play. How many ch	number sentance for the story. Write of her friends, were playing outside, 'i liten are playing now?' 5 children + 3 children	Three more friends came to	Cofin and three or Now many childr	tie a number scattener for the story. Write the answer with a label, of his friends were making a pozzle. Colin's two disters cann to help, ten are working on the puzzle nove? 4 children + 2 children = 6 children
	children How many micks are	a in thu box?1U socks are there?5		6 children
3. Shode two fourths.	Stude four eighths SI	rath one half.	3. Shade three fourt	ths Shodo three eighths. Shado one half.
	forcest number of dames and pennics $\frac{1}{2}$ and names $\frac{1}{2}$.			thu foreest number of dimes and penyins. $\frac{2}{\sqrt{2}}$, dimes $\frac{2}{\sqrt{2}}$, peraises, the forest number of tens and ones, $\frac{2}{\sqrt{2}}$ for $\frac{5}{\sqrt{2}}$, ones.
5. Add. 60 + 10 = 70	30 + 10 = <u>40</u>	10 + 80 = .90	5. Add. 70 + 10 =	80 20 + 30 = 30 10 + 90 = 100



creating a bar graph with a scale of two

lesson preparation	
materials 2 cups of 20 pennies	
Master 2-88	
crayons Fact Sheet S 6.0	
In the morning • Write the following in the pattern box on the meeting strip:	
,,,, 22, 24, 26, 28	
Answer: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28	
• Write 43¢ on the meeting strip. Provide a cup of 10 dimes, a cup of 10 nick and a cup of 20 pennies.	els.

THE MEETING

calendar

- Ask your child to write the date on the calendar and meeting strip.
- Ask your child the following two or three times a week:

date ____ days ago, date ____ days from now day of the week ____ days ago, day of the week ____ days from now ____th month, month before, month after

• Record on the meeting strip a special event and the number of days until it occurs.

weather graph

- Ask your child to read and graph today's temperature to the nearest two
- Count by 10's and 2's to check the temperature on the graph.
- Ask your child to connect the dot for yesterday's temperature to the dot for today's temperature and compare the temperatures.

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Math 2 · Lesson 88

counting

 Ask your child to choose a number on the hundred number chart. Ask your child to add or subtract ten or one. Repeat 6–10 times. Ask your child to give directions for returning to the starting number.

"Let's use our patting and clapping pattern to help us count by 3's to 30."

- Repeat this several times.
- Do the following once or twice a week:

count by 10's to 400 and backward from 400 by 10's count by 5's to 100 and backward from 50 by 5's say the even numbers to 100 and backward from 50 say the odd numbers to 49 and backward from 49

graph questions

You and your child each ask a question about any of the graphs.

patterning

· Ask your child to do the following:

identify the pattern (repeating, continuing, or both) identify the numbers to complete the pattern read the pattern

money

- Ask your child to put the coins in the coin cup. Count the money in the coin cup together.
- Ask your child for another way to show that amount of money. Count these coins together to check the amount.

clock

- · Set the clock to a five-minute interval.
- Ask the following:

"It's (morning/afternoon/evening). What time is it?"

time one hour ago

time one hour from now

- · Ask your child to write the digital time on the meeting strip.
- Record on the meeting strip the time an activity will occur.

number of the day

 Write three number sentences for the number of the day on the meeting strip.

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fact practice

- Write three fact family numbers (e.g., 2, 7, 9) on the chalkboard.
- Allow time for your child to write the four fact family number sentences on the chalkboard.

THE LESSON

Creating a Bar Graph with a Scale of Two

"Today you will learn how to draw a bar graph with a scale of two."

"We will use pennies to make a graph."

"When we looked at pennies before, we noticed that there was a date on each coin."

"Do you know what that date means?" the year the penny was minted

"The mint date of a penny is just like a birth date of the penny."

"It tells us the year the penny was made."

• Hold up a cup of 20 pennies.

"There are 20 pennies in this cup."

"Do you think that more of these pennies were made before or after you were born?"

"Let's check to see."

"Let's tally and make a graph to show the mint dates of the pennies."

- Give your child the cup of pennies.
- Draw the following on the chalkboard:

Before 1965 1965-1969 1970-1974 1975-1979 1980-1984 1985-1989 1990-now

- Ask your child to identify where to draw the tally mark.
- Repeat for all the pennies.

"Let's show this information on a graph."

• Draw Master 2-88 on the chalkboard.

"How many pennies were minted before 1965?"

[&]quot;Take a penny out of the cup."

[&]quot;What is the mint date of the penny?"

[&]quot;Where will I draw a tally mark to show that?"

Math 2 · Lesson 88

"How will we show that on our graph?"

- Shade the graph to show this information.
- · Repeat with each column on the graph.
 - "How many pennies were minted between 1985 and 1989?"
- "How many pennies were minted between 1975 and 1979?"
- "Between what years were most of the pennies minted?"
- "Between what years were the fewest of the pennies minted?"
- "How many more pennies were minted between ____ and ____ than between ____ and ____?"
- · Repeat with several columns.
- "Let's circle the column that has the pennies that are just about the same age as you are."
- Circle the dates at the bottom of the appropriate column.
- "Where are the older pennies on the graph?" on the left
- "Where are the younger pennies on the graph?" on the right
- "Are more pennies older or younger than you?"
- "Now you will make your own graph to show the mint dates of 20 different pennies."
- "Do you think your graph will look the same as the one we made together?"
- Ask your child to explain why he/she thinks the graphs will or will not look the same.
- Give your child Master 2-88 and a cup of 20 pennies.
- "Tally and draw a graph to show the mint dates of the pennies in your cup."
- "Do this just like we did when we worked together."
- "Use your crayons to color your graph."
- "When you finish, answer the questions about your graph."

CLASS PRACTICE

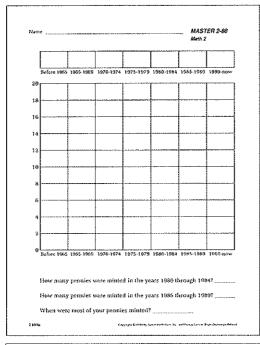
number fact practice

- Use the blue fact cards to practice the subtracting a number from ten facts with your child.
- Give your child Fact Sheet S 6.0.
- Time your child for one minute.
- Correct the fact sheet with your child and record the score.
- Allow time for your child to complete the unfinished facts.

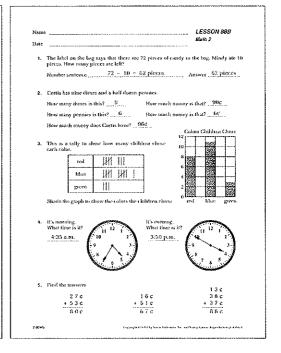
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WRITTEN PRACTICE

- Complete Worksheet 88A with your child.
- Complete Worksheet 88B with your child later in the day.



	(Messare this line segment using tuches. 3 ') LESSON 88A (Messare this line segment using tuches. 3 ')
	(Draw a 1, line segment.)
1.	There are 63 children in grade 2 at Haloy School. For second graders were absent blunday. How many grade 2 children were in school?
	Number sontence $83 - 10 = 73$ children Answer 73 children
z.	Shelly has a half diszen dimes and a dozen pennies.
	Bow many dinnes is this? 6 How much money is that? 60e
	How many pennies is this?12 How much money is that?12e
	How much money does Shelly have? 72C Colors Children Chine
3.	This is a rally to show how many children chose 10 graphs with 11 graphs 11 11 11 11 11 11 11 11 11 11 11 11 11
4.	H5 morning. What time (s.19) 7245 n.10. 10 1 2 8005 p.m. 10 2 3 3 4 2 3
5.	Find the answers. 16 c 2.6 c 3.7 c 4.3 c
	26e 37c 43c +46e +42e +28c 72c 29e 82c



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L esson 125

identifying intersecting lines identifying perpendicular lines

lesson preparation

materials

Written Assessment #24

1 geoboard

2 geobands

Master 2-125

Fact Sheet M 17.0

in the morning

Write the following in the pattern box on the meeting strip:

450, 460, 470, ____, ___, ___, ___,

Answer: 450, 460, 470, 480, 490, 500, 510, 520, 530

 Write \$2.76 on the meeting strip. Provide a cup of 10 quarters, a cup of 10 dimes, a cup of 10 nickels, and a cup of 20 pennies.

THE MEETING

calendar

- Ask your child to write the date on the calendar and meeting strip.
- Ask your child to identify the number of days in 1 week, 2 weeks, and 3 weeks.

Ask your child the following two or three times a week:

date _____ days ago, date _____ days from now
day of the week _____ days ago, day of the week _____ days from now
_____th month, month before, month after

 Record on the meeting strip a special event and the number of days until it occurs.

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Math 2 · Lesson 125

weather graph

- Ask your child to read and graph today's temperature to the nearest two degrees.
- Count by 10's and 2's to check the temperature on the graph.
- Ask your child to connect the dot for yesterday's temperature to the dot for today's temperature and compare the temperatures.

counting

- Count by 4's to 40 and backward from 40 by 4's.
- Count by 25's to 300 and backward from 300 by 25's.
- · Count by 3's to 30 and backward from 30 by 3's.
- Do the following once a week:

count by 10's to 400 and backward from 400 by 10's count by 5's to 100 and backward from 50 by 5's say the even numbers to 100 and backward from 50 say the odd numbers to 49 and backward from 49

graph questions

• You and your child each ask a question about any of the graphs.

patterning

Ask your child to do the following:

identify the pattern (repeating, continuing, or both) identify the numbers to complete the pattern read the pattern

money

- Ask your child to put the coins in the coin cup. Count the money in the coin cup together.
- Ask your child for another way to show that amount of money. Count these coins together to check the amount.

clock

- · Set the clock to a five-minute interval.
- · Ask the following:

"It's (morning/afternoon/evening). What time is it?"

time one hour ago

time one hour from now

- Ask your child to write the digital time on the meeting strip.
- Record on the meeting strip the time an activity will occur.

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number of the day

• Write three number sentences for the number of the day on the meeting strip.

fact practice

- Write three fact family numbers (e.g., 2, 7, 9) on the chalkboard.
- Allow time for your child to write the four fact family number sentences on the chalkboard.

ASSESSMENT

Written Assessment

- Give your child Written Assessment #24.
- Read the directions for each problem. Allow time for your child to complete each problem before continuing.
- Correct the paper, noting your child's mistakes on the Individual Recording Form. Review the errors with your child.

THE LESSON

Identifying Intersecting Lines Identifying Perpendicular Lines

- "We have been talking about parallel lines and line segments."
- "Where do you see parallel lines or line segments in this room?"
- Give your child a geoboard and two geobands.
 - "Make parallel line segments on your geoboard."
- Allow time for your child to do this.
- "What do we know about parallel lines?" they never meet; they are an equal distance apart $\,$
- "Take the geobands off the geoboard."
- "Today you will learn about line segments that do meet."
- "You also will learn about lines and line segments that meet in a special way."
- "Make two line segments that meet on your geoboard."
- Allow time for your child to do this.

Math 2 · Lesson 125

"Put your finger on the point where the line segments meet."

"Mathematicians call this the intersection of the line segments."

"These are intersecting line segments."

"This is why we say that when two streets meet, we have an intersection."

"There are special types of intersecting line segments."

• Draw the following on the chalkboard:



"When two line segments intersect like these line segments do, we call them perpendicular line segments."

"What do you notice about perpendicular line segments?"

- Allow time for your child to offer observations.
- "Perpendicular lines and line segments have at least one right angle."
- "We can use the corner of a piece of paper to check for perpendicular lines and line segments."
- · Demonstrate on the chalkboard examples.
- "Where do you see an example of perpendicular lines or line segments in this room?"
- Allow time for your child to locate as many right angles as possible.
 - "Make perpendicular line segments on your geoboard."
- Allow time for your child to do this.
 - "Let's check to see if the line segments are perpendicular."
 - "How can we do this?" use the corner of a piece of paper
- Give your child Master 2-125.
- "Use the corner of this paper to make sure that you have at least one right angle."
- "Copy your perpendicular line segments on the first small geoboard picture."
- "Draw a small square in the corner of the right angle."
- Allow time for your child to do this.
- "Make a different pair of perpendicular line segments on your geoboard."
- · Allow time for your child to do this.
- "Check to see if they are perpendicular."
- "Copy your perpendicular line segments on the second small geoboard picture."

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- "Draw a small square in the corner of the right angle."
- · Allow time for your child to do this.
 - "Make two more different examples of perpendicular line segments."
- "Copy your perpendicular line segments on the third and fourth small geoboard pictures."
- · Allow time for your child to do this.

CLASS PRACTICE

number fact practice

- Use the pink fact cards to practice the multiplying by three facts with your child.
- Give your child Fact Sheet M 17.0.
- Time your child for one minute.
- Correct the fact sheet with your child and record the score.
- Allow time for your child to complete the unfinished facts.

WRITTEN PRACTICE

- Complete Worksheet 125A with your child.
- Complete Worksheet 125B with your child later in the day.

Math 2 · Lesson 125

Name _								ISTER : th 2	2-12
			Perpo	ndicul	ar Line	Segm	ents		
1.					2.				
•	•	٠	•	•		•	٠	•	•
						•		٠	
							•		
				-	.				
					.	٠		•	
					I		~		
3.					4.				
•	•	•	•	•	•	•	•	•	•
		•			•	•	٠		
					.		٠		٠
				.	.				

	****					SSMENT 24 ON 125
Thore are	children in l	oul's group. E	ech child bar	5 mark	ors. Draw the	naskas.
į	200				11.00 11.00	
How many	y markets do t	he children in	l'aul's group	have ult	together? 2) markers
				2	_, em	
	he length of a po using centi	meters.				
What is th	e perimeter?	18 cm	4 cm			ein
						1
			- 1			1
						J
			L		i,, can	J
		oxample of par				J
		example of parties in the				j
						J
Where do	you see paral marker, 4 dismo	id lines in the coins.				
Where do	you see paral marker, 4 dismo noles. Draw n money do H	s, 1 midet, the coins.				
Where do I have 1 quested 2 por How much	you see paral marter, 4 dime noies. Oraw i money do H amount Iwo v	ed lines in the ses, 1 micket, the coins-nave?				
Where do I have 1 que and 2 por How much	you see paral marter, 4 dime noies. Oraw i money do H amount Iwo v	ed lines in the ses, 1 micket, the coins-nave?				
Where do I have 1 quested 2 por How much	you see paral marter, 4 diam noles. Oraw a money do l'il amount two v	ed lines in the ses, 1 micket, the coins-nave?				(H
Where do I have 1 quend 2 per How much Write the c \$6.72 Find the ac	you see paral marter, 4 dian moles. Oraw noites of the mount two v 50.73	ed lines in the ses, 1 micket, the coins-nave?	Q D			P) 38 47 + 65

Name (Draw a 3" line segment.)		LESSON 125A Math 2
Date (Measure this line segment	using mules. 4_7	
1. Twenty-six children were them.	in the gynt. Seventeen	children from another class pile
What type of story is this?	some), some more
Hose many children are in	the gym moor	
Number sentence 2	6 i 17 = 43 childi	gu Answer 4.3 childr
2. Circle the perpendicular h	ne segetimats.	
	\otimes	- (+)
3. About how much might a 2	/year-old-child-weigh?	
200 pounds 🤇	60 pound\$> 15 p	nunds 2 pounds
Rosanil each number to the	postest 10	
78	1310_	25 30
5. Circle all the geometric sol	ids that have at least or	n-jenni.
(pyramid)	ylinder (con)	sphere Cube
6. find the answers.		
		6 8×10 = 80
62 3 -38 +2 24 +3	17	9 × 100 × 300
3.3	/ × 3 =	3 × 100 =
6.3 1.7		
4.5 1.7	9 × 3 = _2	<u> 5 × 3 ≈ 15.</u>

Name Date	Math 2
There were fairy-three children in the gyan. Fifte What type of story is this?	, some went away
2. Care in the perpendicular fine segments.	\oplus \bigcirc
About tras much might a 10-year old child weight Z5 pounds 300 pounds 99	pounds 4 pounds
Record cock number to the occurs 110 31 30 9 10	1520
, m	one (phuri)
$\begin{array}{cccc} $	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
\$180Mb Espender (1875)	om Philipping des and Name Laboria III perdenter producer

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Math 3 Home Study **Table of Contents**

The table of contents indicates the order of topics covered in Math 3.

Examples of the development of topics can be seen in the Sample Lessons.

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Lesson 4	Telling Time to the Half Hour; Addition Facts — Adding One, Adding Zero
Lesson 5	Using a Ruler to Measure to the Nearest Inch
Lesson 6	Identifying and Measuring the Length and Width of a Rectangle
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Lesson 9	Identifying Even and Odd Numbers; Identifying and Acting Out Some, Some More Stories
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Telling Time to the Hour

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rocusous Hospitalis	Adding Multiples of Ten	Lesson 64	Subtracting Multiples of 10 and 100; Comparing a Ordering Three-Digit Numbers
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Lesson 37	Writing Number Sentences for Some, Some More and Some, Some Went Away Stories	Lesson 67	Squaring Numbers; Identifying Perfect Squares
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Lesson 39	Counting Quarters; Subtraction Facts — Subtracting Zero and Differences of Zero	Lesson 69	Using Fractions Adding Two-Digit Numbers Using Mental Comput
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* /2	Subtraction Facts — Differences of One	Lesson 73	Writing Numbers to 100 Using Words
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	LESSON):
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Lesson 139 Creating a Coordinate Plane; Identifying the

Lesson 140 Graphing Points on a Coordinate Plane

Notes on Math 3 Sample Lessons

On the following pages you will find three *Math 3* lessons. These are lessons taken from the *Math 3 Home Study Teacher's Manual*. The miniature pages pictured at the end of each lesson show the student materials which accompany each lesson and include answers for your convenience. These materials are found in the Student Workbook.

The charts below identify the components found in each lesson and describe how each component is used.

Lesson 35

Meeting	The Meeting Book is used to practice patterning, problem solving, counting, time, temperature, and money.
Assessment	A written assessment occurs every five lessons.
Lesson	A ruler is used to draw congruent line segments using centimeters.
Master 3-35	This master is used to practice drawing congruent line segments.
Fact Sheet	Multiplication is practiced.
Worksheet	Side A is completed with your assistance immediately following the lesson, while Side B is completed later in the day.

Lesson 61

Meeting	Counting increments have been added, and the pattern rule and various Fabrenheit temperatures must be identified.
Lesson	Two-color chips are used to practice writing a part of a set as a fraction.
Master 3-61	This master is used to record the fractional parts of the sets of chips.
Fact Sheet	Subtraction is practiced.
Worksheet	The lesson topic is practiced, along with concepts taught in earlier lessons.

Lesson 114

Meeting	Towers are used to solve larger, smaller, difference problems, and your child practices making change for a dollar.
Lesson	One-inch color tiles are used to find the missing dimension of a rectangle.
Master 3-114	This master is used to practice finding the missing dimension of a rectangle.
Fact Sheet	One hundred multiplication facts are practiced.
Worksheet	Story problems are practiced every day. Other problems practice old and new facts.



Lesson 35

drawing congruent line segments using centimeters

lesson preparation

materials

Written Assessment #8

piece of paper

rulen

Maşter 3-35

Fact Sheet M 10.0

in the morning

- Draw a 25-cm line segment on a piece of paper.
- Write the following in the pattern box on the meeting strip:

___, ___, 22, 24, 26, ___, ___, Rule: ____

Answer: 16, 18, 20, 22, 24, 26, 28, 30, 32 Rule: + 2

- Write 2:30 on the meeting strip.
- \bullet Write the following "Problem of the Day" on a 3" \times 5" card:

Helen had 80¢. She spent 3 dimes on a pencil. How much money does she have now?

Answer: 800 - 300 = 500

Put 9 dimes and 24 pennies in the coin cup.

THE MEETING

calendar

- Ask your child to write the date on the calendar and the meeting strip.
 - "What day of the week is it today?"
 - "What are the days of the weekend?"
 - "What day of the week will it be a week from today?"
 - "How many days are there in a week?"

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Math 3 · Lesson 35

- Repeat to ten weeks. Your child can use the 7's counting strip for help.
- "What will be the date ____ days from today?"
- "What was the date a week ago?"
- "What are the months of the year?"
- "How many months are there in a year?"
- "How many months are there in two years?"
- "What month of the year is _____?"

number of the day

- Write today's number on the meeting strip.
- Ask your child to write three number sentences for 35.

temperature

- Ask your child to read and record today's temperature.
- "Is it warmer or colder today than it was yesterday?"
- "How many degrees warmer or colder is it?"

today's count

- Ask your child to choose a number between 1 and 9 and count by 10's to 200. For example: 2, 12, 22, 32, 42, 52, . . . , 182, 192.
- · Ask your child to do the following:

count by 7's to 70 and backward from 70 by 7's count by 5's to 100 and backward from 50 by 5's say the odd numbers to 19 and backward from 19

today's pattern

- "How can we find the missing numbers in the number pattern?"
- · Ask your child to fill in the missing numbers.
 - "Let's read the pattern together."
 - "What is the rule for this pattern?"

clock

- Ask your child to read the time on the meeting strip.
- Ask your child to set the demonstration clock.
 - "What time was it an hour ago?"
 - "What time was it two hours ago?"
 - "What time will it be an hour from now?"
 - "What time will it be two hours from now?"

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problem of the day

- "Read today's problem."
- "What type of story is this?" some, some went away
- "What is a number sentence for this story?"
- Ask your child to write the number sentence and the answer on the meeting strip.

coin cup

Ask your child to do the following:
 identify the coins in the coin cup
 record the number of each coin on the meeting strip
 write the amount on the meeting strip

ASSESSMENT

Written Assessment

"Today I would like to see what you remember from what we have been practicing."

- Give your child Written Assessment #6.
- Ask your child to read the directions for each problem.
- Allow time for your child to complete the problems.
- Correct the paper, noting your child's mistakes on the **Individual Recording Form**. Review the errors with your child.

THE LESSON

Drawing Congruent Line Segments Using Centimeters

"Today you will learn how to draw congruent line segments using centimeters."

- Give your child the paper with the 25-cm line segment and a ruler.
- "Measure my line segment using centimeters."
- "What is the length of my line segment?"
- Write "25 cm" on the line segment.
- "Now I will draw another line segment that looks the same as the first line segment."
- Demonstrate on the same piece of paper as you say the following:

- "I will begin by putting an endpoint on the paper."
- "I will put the beginning of the ruler at the endpoint."
- "Now I will hold the ruler with the fingers of the hand I don't write with."
- "I will spread my fingers like this and press down to keep the ruler steady."
- "I will not move my ruler until I finish drawing my line segment."
- "Now I will draw a line along the ruler until I reach the same number on the ruler as the length of the first line segment."
- "I will lift up my ruler and put an endpoint at the end of the line segment."
- "When I am finished, I will remeasure my line segment to make sure it is the same length as the other line segment."
- "We can say that these are congruent line segments."
- "Congruent line segments are the same length."
- Note: Congruent line segments need not be parallel.
- · Give your child Master 3-35 and a ruler.
- "Now you will have a chance to draw congruent line segments."
- "Point to the line segment in the first box."
- "Why did I call this a line segment?" because it has endpoints
- "Use your ruler to measure the line segment."
- "How many centimeters long is it?" 7 cm
- "Write the length on the line segment."
- "Now you will draw a line segment beneath it that looks just like that line segment."
- "There is an endpoint on the paper."
- "Put the left end (0) of your ruler on the endpoint."
- "Hold the ruler with the fingers of the hand you don't write with."
- "Spread your fingers and press down to keep the ruler steady."
- · Allow your child to stand up, if necessary.
- "Do not move your ruler until you finish drawing your line segment."
- "Now draw a line along the ruler until you reach the same number on the ruler as the length of the line segment you measured."
- "Lift up your ruler and put an endpoint at the end of the new line segment."
- "Measure your new line segment to make sure it is the same length as the other line segment."

"What is the special name for two line segments that are the same length?" congruent

"These are congruent line segments."

- Repeat for the line segment in box 2.
 - "Draw congruent line segments in boxes three and four."
- · Assist your child if necessary.

CLASS PRACTICE

"Use the back of Master 3-35 to do these problems."

- Write the following on the chalkboard:
 - 1. Round today's temperature to the nearest 10 degrees.
- 2. Draw 3 dimes and 3 nickels. How much money is this?
- 3. Draw a square and shade three fourths.
- 4. Round these numbers to the nearest 10.

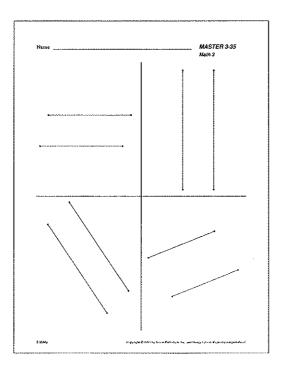
52. 19

- Review the answers with your child.
- Give your child Fact Sheet M 10.0.
- Time your child for 45 seconds.
- Correct the fact sheet together and record the score.
- Allow time for your child to complete the unfinished facts.

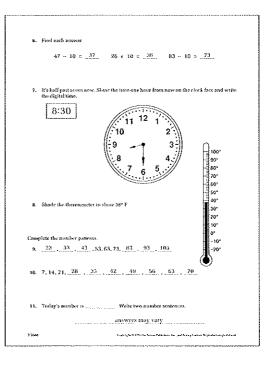
WRITTEN PRACTICE

- Complete Worksheet 35A with your child.
- Your child completes Worksheet 35B later in the day.

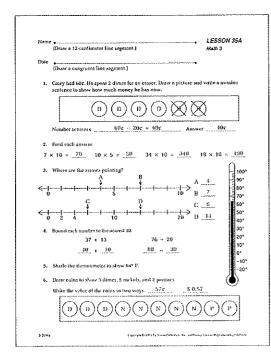
Math 3 · Lesson 35

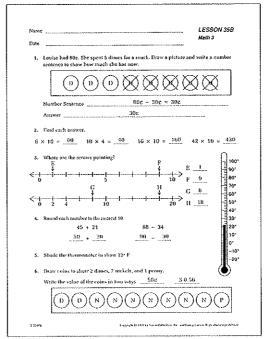


1. If today is October 1st, what will be the date two works from today? October 15th 2. Als motive bought a baff dozon fluckery muffins and a hilf dozon core outfloor, picture and write a number sentence of show how many muffins the bought. Number sentence of blueberry muffins + 6 corn muffins > 12 muffin Answer		
October 15th 2. Al's mother bought a baff dozon flucherry muffins and a half dozon corn outfloor, picture and write a number sectence to show how many muffins the bought. Number sectence G blueberry muffins + 6 corn muffins > 12 muffin Answer		LESSON 35
2. Als mother bought a balf dazen blineberry muffins and a hill dozen corn outflow picture and write a number sectence to show how many muffins the bought. Number sentence 6 blueberry muffins + 6 com muffins > 12 muffin Answer. 12 muffins 3. Divide and shade the square to show \(\frac{1}{4}\) moswers may vary 4. Write there ways to make 30g using disasts and permises \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{9}{2}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10}{2}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) pennies \(\frac{30g \cdot 2}{4}\) disasts and \(\frac{10g \cdot 2}{4}\) disasts and \(I.	If today is October 1st, what will be the date two works from today?
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4. Write three ways to make 30g using dinner and permises 30e = 3, dinner and 39 permises 30e = 7, dinner and 19 permises 30e = 1, dinner and 29 permises 3. Count the triangy. Write the value of the coins in two different ways.		Answer 12 multius
30c s 3, diner and 2, pennies 30c s 2, dimes and 19, pennies 30c s 1, dimes and 29, pennies 5. Count the money. Write the value of the ceins in two different ways.	3.	Divide and shade the square to show $\frac{1}{4}$. convers may vary
30c = .7. dimes and .19. peoples 30c = .1. dimes and .29. peoples 5. Count the money. Write the value of the coins in two different ways.	4.	Write there ways to make 30g using disaes and permiss
30 c v . 1 dimes and 22. pennies 5. Crumi the maney. Write the value of the coins in two different ways.		$30c = \frac{3}{2}$. dimes and $\frac{9}{2}$. penules
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esson 61

writing a part of a set as a fraction

lesson preparation

materials

10 two-color chips Moster 3-61 Fact Sheet S-5-0

in the morning

· Write the following in the pattern box on the meeting strip:

__, __, 49, 42, 35, __, __, Rule: ___

Answer: 70, 63, 56, 49, 42, 35, 28, 21, 14 Rule: - 7

- Set the demonstration clock at 4:10.
- Write the following "Problem of the Day" on a 3" x 5" card:

Scott has soccer practice on Mondays, Wednesdays, and Fridays. Soccer practice lasts for 10 weeks. How many practice sessions are there?

Answer: 10 x 3 practice sessions = 30 practice sessions

. Put 1 quarter, 9 dimes, 1 nickel, and 2 pennies in the coin cup.

THE MEETING

calendar

- Ask your child to write the date on the calendar and the meeting strip.
- Ask your child to identify the following two or three times a week:
 number of days in 1 to 10, 100, and 1000 weeks (ask in random order)
 date _____ days ago, ____ days from now, week ago, week from now
 number of months in 1-10 years, 100 years, 1000 years
 month before, month after, ____th month of the year

"How many weeks is 35 days?" . . . 49 days?" . . . ____ days?"

number of the day

- Write today's number on the meeting strip.
- Ask your child to write three number sentences for 61.

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temperature

· Ask your child to do the following:

read and record today's temperature
compare today's temperature with yesterday's temperature
identify the Fahrenheit temperature at which water freezes, water
boils, and for normal body temperature

today's count

• Count by 4's to 40 and backward from 40 by 4's.

"Today we will count by 8's to 80."

"We can use the 4's counting strip to help us count by 8's."

"How do you think we will do that?" read every other number

 Point to every other number on the counting strip for 4's as your child counts by 8's.

"Let's count by 8's to 80."

"I will write the numbers we say on a counting strip."

Ask your child to do the following:

count by 12's to 120 and backward from 120 by 12's say the odd numbers to 49 and backward from 49 count by 7's to 70 and backward from 70 by 7's

today's pattern

• Ask your child to do the following:

identify the numbers to complete the pattern read the pattern identify the rule of the pattern

clock

"What time is shown on the clock?"

"It's morning."

"Write the digital time on the meeting strip."

"What time was it two hours ago?"

"What time will it be three hours from now?"

problem of the day

· Ask your child to read today's problem.

"What type of story is this?"

Ask your child to do the following:
 write the number sentence on the meeting strip
 write the answer on the meeting strip

coin cup

• Ask your child to count the coins and record their value on the meeting strip.

THE LESSON

Writing a Part of a Set as a Fraction

"Today you will learn how to write a part of a set as a fraction."

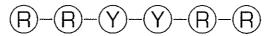
· Show your child 6 two-color chips.

"Let's pretend that these chips are beads on a necklace."

"Shake the chips in your hands and gently put them on the table."

"Now arrange them like beads on a necklace."

- · Allow time for your child to do this.
- Draw a chalkboard picture to match the colors of the chips. Record the colors on the chalkboard in the following way:

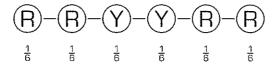


"We can write what part of the whole necklace each bead is by using a fraction."

"How many beads do we have?" 6

"What fractional part is each bead?" $\frac{1}{6}$

· Record fractions below each bead on the chalkboard:



"What fractional part is red?" $-\frac{4}{6}$

"What fractional part is yellow?" $\frac{2}{6}$

"Together we have six sixths or one whole."

· Write the following on the chalkboard:

red	yellow	total
<u>4</u>	തിര	<u> </u>

- "Let's try this again."
- "Shake the chips carefully in your hands."
- "Gently put them on the table."
- "Arrange them like beads on a necklace."
- Draw the "necklace" on the chalkboard.
- "What fractional part is red?"
- "What fractional part is yellow?"
- "Together you have six sixths or one whole."
- Write the results on the chalkboard chart.
- Repeat several times.
- Give your child Master 3-61 and 10 two-color chips.
- "Now you will have a chance to make a ten-bead necklace."
- "Shake the chips in your hands."
- "Gently put them on the table."
- "What fractional part is red?"
- "Write that answer under 'fractional part that is red.' "
- "What fractional part is yellow?"
- "Write that answer under 'fractional part that is yellow.'"
- "What is your total sum of the fractional parts?" $\frac{10}{10}$
- "Write that answer under 'total fractional parts.'"
- "Now gently shake the chips and record the fractional parts nine more times."
- When your child finishes, continue.
 - "What did you notice?"
- Repeat with different numbers of two-color chips, if desired.

CLASS PRACTICE

- "Use the pink fact cards to practice the subtraction facts."
- Give your child Fact Sheet S 5.0.
- Time your child for 45 seconds.
- Correct the fact sheet together and record the score.
- Allow time for your child to complete the unfinished facts.

WRITTEN PRACTICE

- Complete Worksheet 61A with your child.
- Your child completes Worksheet 61B later in the day.

Name		Master 3-61 Math 3
	Fractional Parts of a Se	4
Practional Part that is RED	Fractional Part that is YELLOW	Total Practional Part
Answers will vary.		1

	(Draw n 0 cm line segment, it is about
Date	Bleave a 14 cm line segment, it is along [5.9] long]
1,	Atherto has piano besons on Tuesdays and Thursdays. How many become will be base ten works? Number sentence: $2.095008 \times 10 \approx 20.0888095$. Answer: 20.0088809
2	How many color chaps are alrowa?5
	Use the correct comparison symbol. (c, x, e) $ 2 \text{ tens and 15 ones} $
4.	What frational part of the rectangle exchanged 5.3
5.	Gas the bar graph to suscer the quosition. About those many children three dogs? sibered 48 20 About those many children chape felter disease 6 Strade the graph to show that she children above costs 0 dogs 65sh cats
	Write 20 divided by 10 or three ways. What is the answer??

Date	LESSON 618 Math 3	
1.	Angela has dame class on Tacodays, Wednesdays, and Saturdays. How many dame classes will the have in tea weeks? $Namber sentence = \frac{3 \text{ clusters}}{3} \times 10 \times 30 \text{ classes} \times 10$	
2.	How many calor they are showe? 6 thow many are real (⊕? , 3, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	
3.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
4.	What has found pout of the rectangle as shaded:	
s.	Doe the loay graph to answer the questions 40 About have many children chase many about 17 20 About have many children chase bailed 2 about 32 10 Sharle the graph to show that 29 children chose scales 0 mice. Direk snakes	
Б.	Write 30 divided by 10 in three ways, Wlot is the answer $t=-\frac{3}{2}$	

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finding a missing dimension of a rectangle

lesson _i	preparation ————	The Committee of States and States
materials		
	r color tiles	
Master 3		
Fact Shee	t W-TUU	
in the mo • Write th	o rning na following in the pattern box c	on the meeting strip:
	,	.,, 66, 72, 78 Rule:
	Answer: 30, 36, 42, 48, 1	54, 60, 66, 72, 78 Rule: + 6
• Write	7:58 p.m. on the meeting s	trip.
• Write th	ne following "Problem of the Da	v" on a $3" \times 5"$ card:
	Answer: 25°F + 37°F = 6	as the temperature in Baltimore? 2°F 37 Difference 25
		Baltimore Denver
• Write	69¢ on the chalkboard.	
• Write	69¢ on the chalkboard.	
•		
•		
•	TING	
не Мее calei	TING ndar	ate on the calendar and the meeting strip.
HE MEE	TING ndar Ask your child to write the da Ask your child to identify the	

number of days in a year, number of days in a leap year

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number of the day

- Write today's number on the meeting strip.
- Ask your child to write three number sentences for 114.

temperature

· Ask your child to do the following:

read and record today's temperature in Fahrenheit and Celsius compare today's temperature with yesterday's temperature identify the Celsius and Fahrenheit temperatures at which water freezes and water boils

today's count

• Ask your child to do the following:

```
count by \frac{1}{2}'s to 6 and backward from 6 by \frac{1}{2}'s count by 9's to 90 and backward from 90 by 9's say the odd numbers from 101 to 149 and backward from 149 to 101 count by 7's to 70 and backward from 70 by 7's count by 4's to 40 and backward from 40 by 4's
```

today's pattern

· Ask your child to do the following:

identify the numbers to complete the pattern read the pattern identify the rule of the pattern

clock

· Ask your child to show the time on the clock.

"Is it morning or afternoon?"

• Ask your child the following:

number of minutes until the next hour time two hours from now time three hours ago time one half hour ago

problem of the day

 Ask your child to do the following: read today's problem

664

draw the towers and write the number sentence on the meeting strip write the answer on the meeting strip

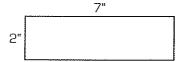
coin cup

- Point to the money amount on the chalkboard.
 - "Let's pretend that I spent this amount of money."
 - "Write my change from \$1.00 on the meeting strip under 'Coin Cup.'"
 - "Show the change using the fewest number of coins."
 - "Record the coins you use on the meeting strip."
- · Allow time for your child to do this.
- "Count back my change."
- "Begin with the smallest coin."

THE LESSON

Finding a Missing Dimension of a Rectangle

• Draw the following on the chalkboard:



"What is the length and width of this rectangle?" the length is 7" and the width is 2"

"The length and width are called the dimensions of a rectangle."

"Today you will learn how to find a missing dimension of a rectangle."

"How many one-inch square tiles will we need to make this rectangle?" 14

- "How do you know?"
- Record "14 square inches" inside the rectangle.
- Give your child a bag of 25 tiles.
- "Use your color tiles to make a two-inch by seven-inch rectangle that looks like my chalkboard rectangle."
- Allow time for your child to make the rectangle.
- "Mathematicians have a special way of describing the tiles in this rectangle."
- "They say that there are two rows of tiles with seven tiles in each row."
- "This is the same as 'groups of,' except now the tiles are arranged in neat rows like the seats in a movie theater."

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"Pretend the tiles in your rectangle are seats in a movie theater for insects and your face is the screen."

"Point to the first row of seats in your theater."

"How many insects can sit in the first row?" 7

"How many rows of seats are in the theater?" 2

"How many seats are in the theater altogether?" 14

• Draw the following on the chalkboard:



"What are the dimensions of this rectangle?" $6" \times 4"$

"Make a six-inch by four-inch rectangle that looks like my chalkboard rectangle."

• Allow time for your child to make the rectangle.

"How many one-inch tiles did you use to make this rectangle?" 24

• Write "24 square inches" inside the rectangle.

"How many rows are in the theater this time?" 6

"How many seats are in each row?" 4

• Draw the following on the chalkboard:

"What are the dimensions of this rectangle?" $1" \times 9"$

"How many one-inch tiles will you need to make this rectangle?" 9

• Write "9 square inches" inside the rectangle.

"How many rows of seats will there be in this rectangle?" 1

"How many seats will there be in each row?" 9

 ${\it ``Make a one-inch by nine-inch rectangle that looks like my chalk board rectangle."}$

Allow time for your child to make the rectangle.

"Now make a theater with four rows."

"Put three seats in each row."

· Allow time for your child to make the rectangle.

"How many seats do you have?" 12

"What are the dimensions of this rectangle?" $4^n \times 3^n$

Draw and label a chalkboard picture.

666

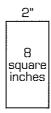
- "Now make a theater with five rows."
- "Put two seats in each row."
- Allow time for your child to make the rectangle.
 - "How many tiles did you use?" 10
 - "What are the dimensions of this rectangle?" $5" \times 2"$
- Draw and label a chalkboard picture.
- "Take fifteen tiles."
- "Make a theater that has three rows."
- Allow time for your child to make the rectangle.
- "How many seats are in each row?" 5
- "What are the dimensions of this rectangle?" $3" \times 5"$
- Draw and label a chalkboard picture.
 - "Take 21 tiles."
- "Make a theater that has three rows."
- · Allow time for your child to make the rectangle.
- "How many tiles are in each row?" 7
- "What are the dimensions of this rectangle?" $3" \times 7"$
- Draw the following on the chalkboard:

- "How many tiles will you use to make this rectangle?" 20
- "How many rows does the picture tell you to make?" 4
- "Make a rectangle to match this picture."
- "How many tiles are in each row?" 5
- Fill in the missing dimension on the chalkboard rectangle.
- "This is the missing dimension of the rectangle."
- Record "4" \times 5" = 20 square inches" below the chalkboard rectangle.
- Draw the following on the chalkboard:

- "How many tiles will you use to make this rectangle?" 18
- "How many rows does the picture tell you to make?" 3
- "Make a rectangle to match this picture."
- "How many tiles are in each row?" 6

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- Fill in the missing dimension on the chalkboard rectangle.
 - "This is the missing dimension of the rectangle."
- Record "3" × 6" ≈ 18 square inches" below the chalkboard rectangle.
- Draw the following on the chalkboard:



"How many tiles will you use to make this rectangle?" 8

"How many rows does the picture tell you to make?" we don't know

"How many tiles are in each row?" 2

"Make a rectangle to match this picture."

"How many rows did you make?" 4

- Fill in the missing dimension on the chalkboard rectangle.
- "This is the missing dimension of the rectangle."
- "What are the dimensions of this rectangle?" $4" \times 2"$
- Record "4" × 2" = 8 square inches" below the chalkboard rectangle.
- Draw the following on the chalkboard:

"How many tiles will you use to make this rectangle?" 16

"How many rows does the picture tell you to make?" we don't know

"How many tiles are in each row?" 4

"Make a rectangle to match this picture."

"How many rows did you make?" 4

"This is the missing dimension of the rectangle."

- Fill in the missing dimension on the chalkboard rectangle.
 - "What are the dimensions of this rectangle?" $4" \times 4"$
- Record "4" × 4" = 16 square inches" below the chalkboard rectangle.
 - "What do you notice about our rectangle this time?" it's a square
- "A square is a special type of rectangle."
- Give your child Master 3-114.

668

"Use your tiles to find the missing dimension or the area of each of these rectangles."

"Make each rectangle using your tiles."

"When you finish, write a multiplication number sentence to match each picture."

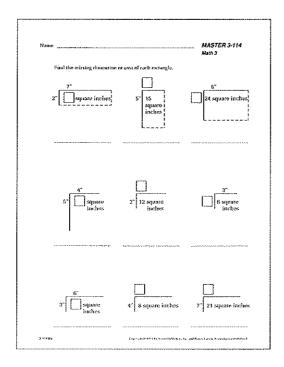
CLASS PRACTICE

- Use the fact cards to practice the multiplication facts with your child.
- Give your child Fact Sheet M-100.
- Time your child for 4 minutes.
- Correct the fact sheet together and record the score.
- Allow time for your child to complete the unfinished facts.

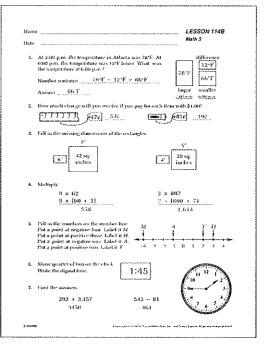
WRITTEN PRACTICE

- Complete Worksheet 114A with your child.
- Your child completes Worksheet 114B later in the day.

Math 3 · Lesson 114



Num	LESSON 114A
	(Measure this line segment using continuous 10 cm) Math 3
Date	(Draw o 1, Time segment.)
1.	At 43th p.m. the temperature in Phoenix was 97° At midnight, the temperature was 20° kover. What was the temperature at midnight = 23° and 10°
	Number sentence 97 l/r = 23 l/r = 74 l/r Jugge smaller Answer 74 l/r 500 kg/s/r
2	Draw much change will you receive if you pay for each item with \$1,00?
	\$24c 7.6v [5] - \$76c .21c
3.	FiR on the missing dimensions of the rectangles Fig. 21 sq. inches
4.	L
	3 × 47 5 × 918 3 × (40 + 7) 5 × (900 + 10 + 10) 144 4.590
5.	Fill at the numbers on the number line $\begin{array}{c ccccccccccccccccccccccccccccccccccc$
6.	Show quarter of eight on the clock $7:45$ $1:12$
7.	Find the answers
	4,692 + 428 268 - 75



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