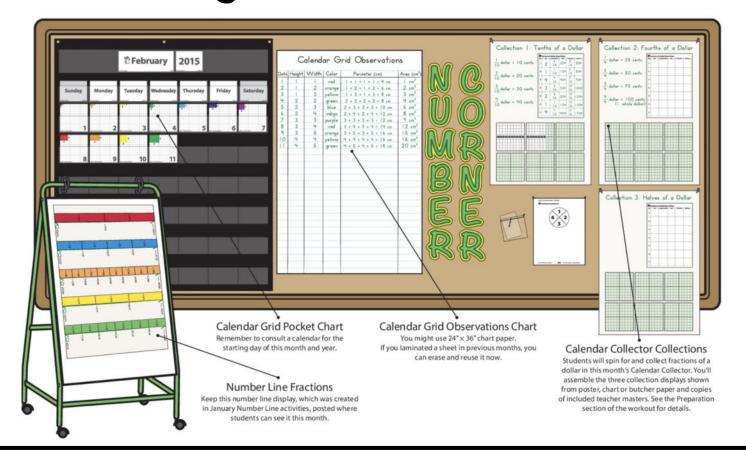
February Number Corner - Gr. 3



February Materials Needed

Materials					
Copies	Run copies of Teacher Masters T1–T12 according to the instructions at the top of each master.				
	If students do not have their own Number Corner Student Books, run a class set of pages 31–41.				
	Run a single display copy of Number Corner Student Book pages 31–41.				
Charts	Prepare the Calendar Grid Observations Chart and the three Calendar Collector collection charts according to preparation instructions in the workout.				
	Make sure the 0 to 1 number lines created in January's Number Line workout remain posted this month.				
Special Items	Have 4 pipe cleaners or Wikki Stix on hand for Calendar Grid Activity 2. See the activity for details.				

	С	alendo	ar G	rid Observati	ons
ate	Height	Width	Color	Perimeter (cm)	Area (cm²)

Literature Connections:

- -All the Colors of the Rainbow by Allan Fowler
- -Spaghetti and Meatballs for All by Marilyn Burns
- -A Rainbow of My Own by Don Freeman
- -What Comes in 2s, 3s, and 4s by Suzanne Aker Dahl
- -One is a Snail, Ten is a Crab by April Pulley Sayre & Jeff Sayre
- -The Wishing Club: A Story About Fractions by Donna Jo Napoli
- -Full House: An Invitation to Fractions by Gayle Ann Dodds

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available. area* divide*

dimension* equal* formula equation* length factor* perimeter* multiple* product* multiply* rectangle* pattern* square unit* product* skip-count sum or total*

width

fraction* x-axis*
half* y-axis*
half dollar whole number*
improper fraction*
nickel
penny
quarter
t tenth*
whole

denominator* eighth

numerator*

sixth

third

dime

dollar

fourth

bar graph*

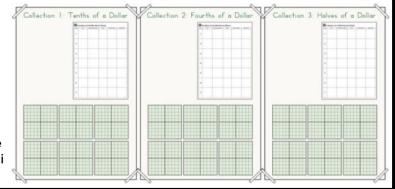
maximum*

minimum*

picture graph*

data*

scale*



strategy

Need:

-Calendar Grid Markers

C. Grid: 1-Introducing the New Calendar Markers (p. 8)

- 1. Post all of the calendar markers to the current date.
 - a. Have students share observations.
- 2. Review what area means (the total number of square units needed to cover a 2-D surface.)
 - a. The smallest square on the grid is 1 square unit.
- 3. Ask students how many square units are in the rectangles posted so far.
- 4. Have students make predictions about the patterns.
 - a. What will the shapes look like?
 - b. What colors might they be?
 - c. What might their areas be?

February: Day 2

C. Grid: Update

1. Post one or more calendar markers so that the Calendar Grid is current.

Need:

- -Prepared Calendar Collector Chart
- -Dime money pieces
- -Glue
- -Spinner

C. Collector: 1-Collecting Tenths of a Dollar (p. 17)

- 1. Explain that students will be collecting money. Each week, they will collect a different kind of coin.
- 2. Show students the different coins one at a time and have them share what they know about each coin.
- 3. Hold up a dime and explain that this week they will collect dimes.
 - a. Record how to write the value of a dime in different ways (ten cents, 10¢, \$0.10, 1/10 dollar)
- 4. Work with students to identify how much each number of dimes is worth and express those amounts in cents and fractions of a dollar.
 - a. Record them on the prepared chart paper.
- 1. Work with student participation to add the first dime or dimes to the collection.
 - Have a student spin the spinner. This is how many dimes they will add to the collection.
 - a. Have students glue the pieces to the chart.
 - Fill out the first row of the record sheet.
 - Update the chart for as many school days that have passed so far this month.

1	Taction 12	Fields & dire	94	Name of	Marion
10 dollar = 10 cents	1 2	1,00	204		204
2 dollar = 20 cents	* 1	10	100	3	30€
O dollar = 20 cents	. 4	10	40¢	7	704
$\frac{3}{10}$ dollar = 30 cents					
$\frac{4}{10}$ dollar = 40 cents		Т			
	2				
		_	_		
0000000					
0000000					
0.000000					
0.00000					

C. Grid: 2-Identifying Perimeter (p. 9)

- Invite students to share observations and make a prediction about today's marker.
- 2. Reveal today's marker and have students share observations.
- 3. Introduce or review the term perimeter.
 - Point to the 5th marker and ask students if they know the measurements for the unmarked side of the rectangle.
 - b. Opposite sides of a rectangle have the same measurement.
 - Have students add up all the side measurements.
 - They have found the total distance around the rectangle. This is called the perimeter.
- 4. Show students the word resource card for *perimeter*.
- 5. Tell students that the length of each small square is 1 centimeter.
 - Review what a centimeter is using a ruler. Measure one side of the rectangle to show that each unit is equal to 1 centimeters.
- 6. Use a pipe cleaner to outline the rectangle. Trim the excess so only the perimeter of the rectangle remains.
 - Have a student measure each side of the rectangle and add them together to find the perimeter.
 - Straighten out the pipe cleaner and measure again to find the perimeter again.
- Ask students how they could use the length and width measurements to figure out the perimeter without actually measurina.
- 8. If time, repeat with another rectangle.

C. Collector: Update

Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.

Need:

-Multiplication Table

2. Glue that number of pieces to the Dollar Grid and update the chart.

February: Day 4

C. Grid: Update

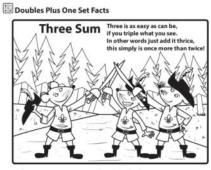
Post one or more calendar markers so that the Calendar Grid is current.

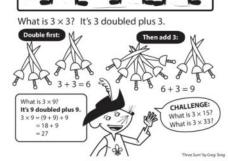
C. Collector: Update

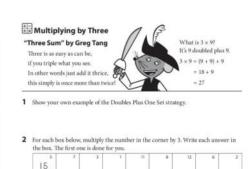
- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 2. Glue that number of pieces to the Dollar Grid and update the chart.

Comp. Fluency: 1-Multiples of Three (p. 24)

- Display the Doubles Plus One Set Facts Teacher Master and review multiplying by 3.
- 1. Display the Multiplication Table and color the Doubles Plus Ones facts if you have not already done so.
- Display Multiplying by Three Student Book page and read the directions.
- After students have had time to 1. complete at least numbers 1 & 2, review the products for number 2.







-Doubles Plus One Set Facts Teacher Master

-Multiplying by Three Student Book page 34

Need:

perimeter

-Pipe cleaner

-Word Resource Card:

-Ruler with centimeters



- 4 Write and solve your own Doubles Plus One Set combination with a larger number
- 5 Use what you know about multiplying by 3 to solve these division problem

C. Grid: Update

- -Number lines from January number corner
- -Fraction Number Lines Student Book page 38

1. Post one or more calendar markers so that the Calendar Grid is current.

C. Collector: Update

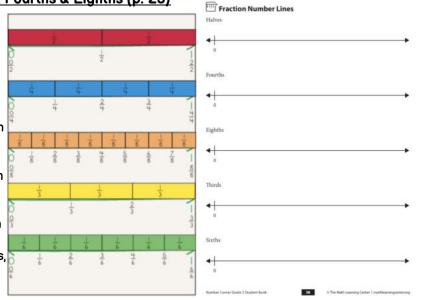
1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.

Need:

2. Glue that number of pieces to the Dollar Grid and update the chart.

Number Line: 1-Labeling Number Lines with Halves, Fourths & Eighths (p. 28)

- Display the Fraction Number Lines Student Book page. Have students turn to this page in their number corner books.
 - a. Be sure students can see the Number lines chart created last month.
- 1. Have students mark ½ on the half line. They can use the chart to help.
 - a. Have students share how they found ½ on their number line.
- 1. Have students mark 3/4 on the fourths line.
 - a. Have students share how they found 34 on their number line.
- 1. Challenge students to mark \(\frac{5}{8} \) on the eighths line.
 - a. Have students share how they found \% on their number line.
- Give students time to completely fill out the halves, fourths, and eighths number lines.



-Double-Doubles Facts Teacher Master

-Multiplying by Four Student Book page 35

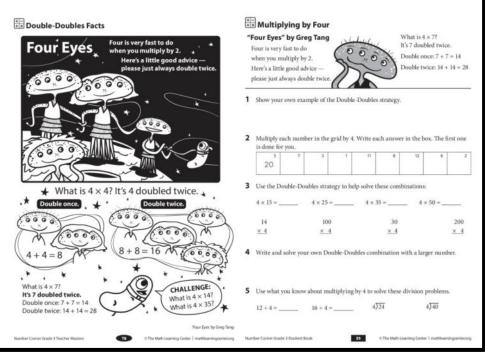
February: Day 6

C. Grid: Update

1. Post one or more calendar markers so that the Calendar Grid is current.

Comp. Fluency: 1-Multiples of Four (p. 24)

- Display the Double-Doubles Facts
 Teacher Master and review
 multiplying by 4.
- Display the Multiplication Table and color the Double-Doubles facts if you have not already done so.
- Display Multiplying by Four Student Book page and read the directions.
- After students have had time to complete at least numbers 1 & 2, review the products for number 2.



Need:

-Multiplication Table

C. Grid: 3-Identifying Area (p. 9)

- Have students make predictions about today's marker.
- -Calendar Grid Observations chart
- -Whiteboards & markers for each student
- -Word Resource Card: area

Need:

- What relationships do they see between the rectangles? What do they notice about the growing pattern? How much bigger does each rectangle get each day? Are there any rectangles that are twice as big as others?
- Post today's marker and have students draw the rectangle on their whiteboards. 2.
- 3. Ask students how they can determine and confirm the total number of square centimeters in the rectangle.
 - Counting each square one-by-one, skip counting by rows or columns, repeated addition equations
- 4. Explain that this is called area. Show the word resource card for area.
- 5. Have students find the area of another rectangle.
- 6. Introduce the Calendar Grid Observations chart and work with student input to fill in the information for the first few markers.
- 7. Have students define perimeter and area before ending.

C. Collector: Update

- Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the
- 1. Glue that number of pieces to the Dollar Grid and update the chart.

Date	Height	Width	Perimeter (cm)	Area (cm²	
1		1	red	+ + + = 4 cm	I cm ²
2	1	2	orange	1 + 2 + 1 + 2 = 6 cm	2 cm ²
3	1	3	yellow	1 + 3 + 1 + 3 = 8 cm	3 cm ²
4	2	2	green	2 + 2 + 2 + 2 = 8 cm	4 cm ²
5	2	3	blue	2 + 3 + 2 + 3 = 10 cm	6 cm ²
6	2	4	indigo	2 + 4 + 2 + 4 = 12 cm	8 cm ²

February: Day 8

C. Grid: Update

- Post one or more calendar markers so that the Calendar Grid is current. 1.
- 2. Update the Calendar Grid Observation Chart.

- -Prepared Collector chart
- -Quarter money pieces
- -Spinner

Need:

-Glue

C. Collector: 2-Collecting Fourths of a Dollar (p. 19)

- Have students make observations about the completed dime collection.
 - How many tenths did they collect altogether? How can they figure out the total without counting them one by one? How many whole dollars did they collect? How many more tenths do they need to make another whole dollar?
- Show students the prepared chart and explain that they will collect quarters next. Work with students to 2. identify how much each number of quarters is worth and record it on the chart.
- Spin the spinner and add that number of quarters to the chart. 3. Fill out the first row of the record sheet.
- 1. Ask students to make predictions about how much they will collect total. Will it be more or less than the total of the dimes?



C. Grid: Update

- 1. Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: Update

Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.

Need:

-Fraction Number Lines Student Book

Recording

 $\frac{4}{6} < \frac{4}{6}$

 $\frac{7}{4} > \frac{2}{4}$

 $\frac{1}{3} > \frac{1}{3}$

 $\frac{3}{8} < \frac{3}{8}$

 $- = \frac{1}{2}$

- = 1

Possible Answers

2/6 < 4/6

4/4 > 2/4

3/3 > 1/3

1/6 < 3/6

3/6 = 1/2

 $\frac{4}{4} = 1$

%=1

1/6 < 4/6

 $\frac{9}{6} = 1$

3/6 < 4/6

 $\frac{2}{3} > \frac{1}{3}$

 $\frac{2}{8} < \frac{3}{8}$

 $\frac{2}{4} = \frac{1}{2}$

 $\frac{2}{2} = 1$

 $\frac{3}{3} = 1$

2. Glue that number of pieces to the Dollar Grid and update the chart.

Number Line: 2-Labeling Number Lines with Thirds & Sixths & Playing Find the Fraction (p. 29)

1. Display the Fraction Number Lines Student Book page. Have students turn to this page in their number corner books. Be sure students can see the Number lines chart created last month.

Is equal to 1/2

Is equal to 1

Name a fraction that:

Has a 6 in the denominator and is less than %

Has a 4 in the denominator and is greater than 3/4

Has a 3 in the denominator and is greater than 1/3

Has an 8 in the denominator and is less than 3/4

- 2. Give students time to find ½ on the thirds line.
- 3. Challenge students to mark 3/6 on the sixths line.
 - a. Have students share how they found 3/6 on their number line.
- 1. Give students time to completely fill out the thirds and sixths number lines.
- 1. Explain that students will use their number lines to play Find the Fraction.
 - a. Divide the class into 2 teams.
 - You will say a fraction and have the teams find another fraction that meets some requirement.
 - a. Teams will take turns going first. The team that goes first will name a fraction that meets the requirement. The second team will then try to name another fraction that meets the requirement.
 - b. If both teams can name a fraction, they both get 1 point. Otherwise only the team with a correct answer will get a point. The team with the most points at the end wins.
 - c. State each prompt verbally. Then write it as shown in the table.

February: Day 10

C. Grid: Update

- 1. Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

Need:

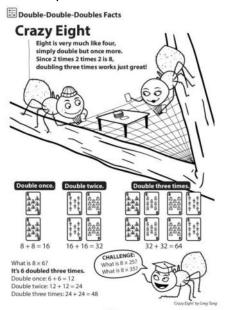
- -Double-Doubles Facts Teacher Master
- -Multiplication Table
- -Multiplying by Eight Student Book page 36

C. Collector: Update

- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 2. Glue that number of pieces to the Dollar Grid and update the chart.

Comp. Fluency: 3-Multiples of Eight (p. 24)

- Display the Double-Doubles
 Facts Teacher Master and review multiplying by 8.
- Display the Multiplication Table and color the Double-Double-Doubles facts if you have not already done so.
- Display Multiplying by Eight Student Book page and read the directions.
- After students have had time to complete at least numbers 1 & 2, review the products for number 2.



	Multiply Crazy Eight Eight is very	t" by G	reg Tang		A C	What is It's 7 do	8 × 7? ubled 3 ti	mes.				
-	simply double	but one	ce more.	18	(50V	Double	once:7+	7 = 14				
4	Since 2 times	2 times	2 is 8,	11/4		Double	twice: 14	+ 14 = 2	8			
4	doubling 3 tir	nes wor	ks just grea	t!		Double	three tim	es: 28 +	28 = 50			
1	Show your o	own exa	mple of the	Double	Double-I	Ooubles (d	louble 3 ti	mes) sti	ategy.			
2	Do you have	e anothe	er good stra	tegy for	multiplyi	ng by 8? I	f so, show	an exa	nple.			
3	Multiply each number in the grid by 8. Write each answer in the box. The fi is done for you.											
	40	7	3.	1	11	8	12	6				
4	Use the Double-Doubles strategy to help solve these combinations:											
	8 × 15 =		8 × 25 =		8 × 35	8 × 35 =		8 × 50 =				
		14 100 30										
	14		100			30			150			
	14 × 8		100 × 8			30 × 8			150 × 8			
5		olve your	× 8	le-Doubl	e-Doubles	× 8	ion with a	larger n	× 8			

C. Grid: Update

- Post one or more calendar markers so that the Calendar Grid is current. 1.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: Update

- Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- Glue that number of pieces to the Dollar Grid and update the chart. 1.

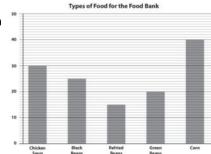
Solving Problems: 1-Looking at Graphs (p. 34)

- Tell students that they will focus on graphs this month. Have them think about what they already know about graphs.
- Display the Food Bank Bar Graph 1 Teacher Master. Have students share 1. observations.
- Emphasize the importance of the title and bar labels. 1.
- Display the Food Bank Bar Graph 2 Teacher Master. Have students share 2. Food Bank Bar Graph 1 similarities and differences between the 2

graphs.

- Display the Food Bank Picture Graph 1. Teacher Master. Tell students that this graph shows the same information as the second Food Bank graph. Ask students what is different about this graph.
- 1. Use the second bar graph to point out each of the following parts: x-axis, y-axis, title, labels, numbers, bars, and key

Mr. Cardoza's third grade class collected cans of food to donate to the local food bank. The graph below shows how many cans of each kind of food they collected.



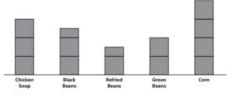
Need:

- -Food Bank Bar Graph 1 Teacher Master -Food Bank Bar Graph 2 Teacher Master
- -Food Bank Picture Graph Teacher Master

Food Bank Bar Graph 2

Mr. Cardoza's third grade class collected cans of food to donate to the local food bank. The graph below shows how many cans of each kind of food they collected.

Types of Food for the Food Bank



Food Bank Picture Graph

Mr. Cardoza's third grade class collected cans of food to donate to the local food bank. The graph below shows how many cans of each kind of food they collected.



February: Day 12

C. Grid: Update

- 1. Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: Update

- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 2. Glue that number of pieces to the Dollar Grid and update the chart.

Number Line: 3-Playing Find the Fraction (p. 30)

- Help students prepare to play Find the Fraction by splitting the class into 2 teams. 1.
- 2. Invite students to open their number corner student book pages to the Fraction Number Lines page.
- 3. Review how to play the game.
 - You will say a fraction and have the teams find another fraction that meets some requirement.
 - b. Teams will take turns going first. The team that goes first will name a fraction that meets the requirement. The second team will then try to name another fraction that meets the requirement.
 - If both teams can name a fraction, they both get 1 point. Otherwise only the team with a correct answer will get

a point. The team with the most points at the end wins.

- State each prompt verbally. Then write it as shown in the table.
- 1. After playing the game, have students share observations about 4/2 and 6/2.

Draw a number line and mark both.

Name a fraction that:	Recording	Possible Answers			
Has a 2 in the numerator and is less than 3/3	$\frac{2}{3} < \frac{2}{3}$	2/4 < 2/3	2/6 < 2/3	2/8 < 2/3	
Has a 3 in the numerator and is greater than %	$\frac{3}{6} > \frac{3}{6}$	3/2 > 3/6	⅓₃ > ⅓	3/4 > 3/6	
Has a 1 in the numerator and is greater than %	$\frac{1}{6} > \frac{1}{6}$	1/2 > 1/6	1/3 > 1/6	1/4 > 1/6	
Has a 4 in the numerator and is less than 1/4	$\frac{4}{4} < \frac{4}{4}$	4/6 < 4/4	4/8 < 4/4		
Has a 1 in the numerator and is less than ½	$\frac{1}{2} < \frac{1}{2}$	1/3 < 1/2 1/4 < 1/2	1/6 < 1/2	1/8 < 1/2	
Has a 2 in the numerator and is greater than %	$\frac{2}{6} > \frac{2}{6}$	2/4 > 2/6	2/3 > 2/6	2/2 > 2/6	

Need:

-Fraction Number Lines Student Book page 38

Need:

-12 colored tiles for each student

C. Grid: 4-Area & Perimeter Challenges (p. 12)

- 1. Post today's marker and fill in the observation chart.
- 2. Have students look at the chart and find examples of markers that have the same perimeter but different area. (Days 3 & 4, 6 & 7, 9 & 10, 15 & 16, 17 & 18)
- 3. Then, have students find examples of markers that have the same area by different perimeter. (There are no examples since the area gets bigger with every additional marker)
- 4. Give each student 12 colored tiles. Have students build as many rectangles they can that have the area of 12 tiles but different perimeters.
- 5. Record and label the different rectangles. (1-by-12, 2-by-6, and 3-by-4)
- 6. Have students compare and contrast the rectangles.
 - a. Which one has the biggest perimeter? Which one has the smallest? Is there a connection between the shape of the rectangle and the size of the perimeter?

C. Collector: Update

- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 2. Glue that number of pieces to the Dollar Grid and update the chart.

February: Day 14

<u>ineea</u>

-Kilograms of Food Served Student Book page 40 -Word Resource Cards: maximum, minimum

= 10 kg of food

Kilograms of Food Served

C. Grid: Update

1.

- Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: Update

- Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 1. Glue that number of pieces to the Dollar Grid and update the chart.

Solving Problems: 2-Interpreting Graphs (p. 35)

- 1. Display the top of the Kilograms of Food Served Student Book page.
- 2. Write the word scale and show that in this graph 1 square equals 10 kilograms of food.
- Ask students the following questions: (Encourage students to think about multiplying by 10 in terms of place value: 80 is 8 groups of ten and 80 is 10 times as much as 8.
 The 8 shifts from the ones place to the tens place.)
 - a. If 1 square equals 10, then how much do 8 squares equal? 13 squares? 3 $\frac{1}{2}$ squares?
 - Ask students to imagine the scale of the graph has changed so that each square represents 30 kilograms. Then ask the following questions:
 - a. If 1 square equals 30 kilograms, how much do 5 squares equal? 8 squares? 2 ½ squares?
- 1. Show students the Word Resource Cards for maximum and minimum.
 - a. In which month was the most food served? How many kilograms were served?
 - b. In which month was the least food served? How many kilograms were served?
- 2. Explain that it can be helpful to determine the range of the data. The range is the difference between the maximum and minimum. Ask students how they could find the range of this data.
- 3. Display the rest of the page and explain that students will use the graph to answer questions about the data. Have

etudente compare their answere with a partner.

C. Grid: Update

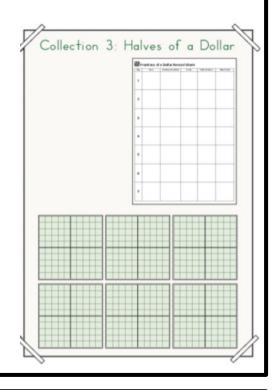
- Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: 2-Collecting Halves of a Dollar (p. 19)

- Have students make observations about the completed quarter collection.
 - How many fourths did they collect altogether? How can they figure out the total without counting them one by one? How many whole dollars did they collect? How many more fourths do they need to make another whole dollar?
- Show students the prepared chart and explain that they will collect half dollars next. Work with students to identify how much each number of half dollars is worth and record it on the chart.
- Spin the spinner and add that number of half dollars to the chart. 1. Fill out the first row of the record sheet.
- Ask students to make predictions about how much they will 1. collect total. Will it be more or less than the total of the dimes and quarters?

Need:

- -Prepared Collector chart
- -Half dollar money pieces
- -Spinner
- -Glue



February: Day 16

C. Grid: Update

- Post one or more calendar markers so that the Calendar Grid is current. 1.
- 2. Update the Calendar Grid Observation Chart.

Need:

- -Red, blue, & green colored pencil for each student
- -Scout Them Out Multiplication (3, 4, 8) Student Book page 37

C. Collector: Update

- Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- Glue that number of pieces to the Dollar Grid and update the chart.

Comp. Fluency: 2-Scout Them Out (p. 25)

- Display the Multiplication Table and have students share observations.
- 2. Display the Scout Them Out Multiplication (3, 4, 8) Number Student Book page.
 - Read the directions out loud and work with students to color each fact with the appropriate color.
 - a. Give students time to complete the rest of the page independently.

*		. 1	2	3		5	6	P.			10	
	0.0	4×1.	0+2	0+3	0 : 4	915	9+8	8+7	0<8	019	0+10	
,	1+8	Tel	1×2	3 v.8	114	1=5	1-6	1+7	1.4.8	7+9	1 = 10	
1		1	2	3	- 4	8	- 6				10	
	2×0	2×1	217	2×3	21.6	2+5	2+8	217	2+8	2×9	T+ H	
3		2				10	12	58	16	18	20	
,	8+0	3 × 1	312	35.8	21.6	2+5	318	Bay	31.8	31.0	211 160	
1		3			12	18	18	21	24	. 27	349	
	4+1	4×1	4×2	813	41.0		100	917	212	410	61.10	
•				12	16	26.	20		12	. 10	100	
	5+6	5×1	1+2	24.3		8+8/	2+8	817	218	3+3	(12)	Zero facts & 0
٠.			10	-10	-	× 1	38	100	-	-	100	Second Control of the
	6-1	441	61/2	8+5		215	8+6	8+7	218	84.9	8+10	Ones facts (s 1)
•			12		24		36	-		34	40	Doubles facts (x 2)
	Tell	fat.	2+2	7+4		7+3	7×6	71.7	712	7+9	Fe III	Doubles Plus One Set facts (x 3)
,		,	14	21	-		42		-		200	Phosphile Dosebles facts (v. 4)

Scout Them Out (3, 4

Multiply by Three, Four and Eight Practice

- 1 Circle all the Doubles Plus One Set facts (×3) in red. Then go back and solve them
- 2 Circle all the Double-Doubles facts (×4) in blue. Then go back and solve them.
- 3 Circle all the Double-Double-Doubles facts (x8) in green. Then go back and solve them.

9	7	10	9	5	6
× 4	<u>× 3</u>	<u>× 4</u>	× 8	<u>× 3</u>	<u>× 8</u>
8	5	10 × 3	10	4	6 × 4
8 × 8	<u>× 4</u>	<u>× 3</u>	<u>× 8</u>	4 × 3	× 4
3 × 3	5	4.	2	3	7
<u>× 3</u>	5 × 8	\times 4	2 × 8	3 × 4	× 3
1 × 4	1	2	3	2 × 4	3
\times 4	<u>× 8</u>	2 × 4	× 8	× 4	\times 4
1 × 3	6	9 × 4	3	8 × 4	7
× 3	× 3	<u>× 4</u>	× 5	× 4	× 4

Solve the d	Solve the division problems. Can you use what you know about multiplication to h												
8)80	4)40	27 ÷ 3 =	8)48	30 + 3 =									
8)32	4)24	56 ÷ 8 =	8)72	24 + 3 =									
8)64	$\frac{4}{12}$	16 + 8 =	4)4	21 + 3 =									

C. Grid: Update

- 1. Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

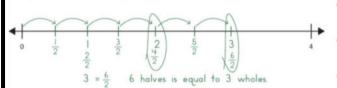
C. Collector: Update

- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 2. Glue that number of pieces to the Dollar Grid and update the chart.

Number Line: 4-Thinking About Equivalent Whole Numbers & Fractions (p. 32)

- 1. Display the Extended Fraction Number Line page and have students find it in their student books.
- 2. Pose the problems one at a time. Then work with the class to model it on the number lines.
- 3. Work together to write the equivalencies between the improper fractions and whole numbers.
- 4. At the end, give students time to share any patterns they notice.
 - a. Can you see a way to write fractions that are equal to a given whole number without taking the jumps on the number line?
 - b. How many fifths are equal to 2? How many tenths? What about 3?
 - c. Have students write and share as many fractions that are equal to 4 as they can.

Teacher Freddy Frog goes half a meter every time he hops. How many hops will it take him to go 3 whole meters?



 Delores Frog goes ¼ meter every time she hops. How many hops will it take her to go 2 whole meters?

Need:

-Extended Fraction Number Line Student Book page 39

- Leanne Frog goes ½ meter every time she hops. How many hops will it take her to go 3 whole meters?
- Jason Frog goes ½ meter every time he hops. How many hops will it take him to go 3
 whole meters?
- Tyrell Frog goes ¼ meter every time he hops. How many hops will it take him to go 2 whole meters?

February: Day 18

Need:

-Make Your Own Graph Student Book page 41

C. Grid: Update

- Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: Update

- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 2. Glue that number of pieces to the Dollar Grid and update the chart.

Solving Problems: 3-Making Graphs (p. 37)

- 1. Let students know they will take a survey to generate data to put on a graph. (Favorite pizza, book genres...)
- Invite students to generate a list of 3-5 choices for the category. Then
 poll the class and record the results where everyone can see.
- 1. Display the Make Your Own Graph Student Book page.
- 2. Ask students what information they need to include on the graph. Work with the class to create a title.
- 1. Ask students what scale they might use for this data. How many people should each square represent?
 - a. Students can choose their own scale but need each square to represent at least 2 people.
- Give students time to create their graphs.
 - a. Challenge: Have students find the minimum, maximum, and range.
- 1. At the end of number corner, give students time to walk around and see each others graphs.

	Make Your Own Bar Graph e data from your class survey to fill in the graph below.	Key
se th	e data from your class survey to fill in the graph below. The bars is a survey to fill in the graph below.	
		9
le_		_
	0.	
	54	
	274	
l,		
	1	

Need:

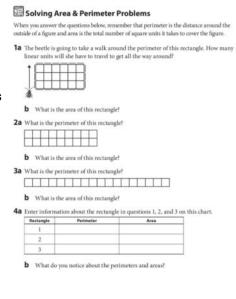
-Solving Area & Perimeter Problems Student Book page 31

C. Grid: 5-Reviewing Area & Perimeter Concepts (p. 13)

- Have students share observations and predictions. Then post today's marker and update the observation chart.
- 2. Ask students if they can make any generalizations about how to find the area and the perimeter of any rectangle.
- 3. Share the formula for area.
 - a. A formula tells how to solve a certain kind of problem correctly each time.
 - a. Write the area formula I x w = A (I stands for length and w stands for width)
- Have students use the formula to find the area of one of the rectangles on the Calendar Grid.
- 1. Challenge students to think of a formula to find the perimeter of a rectangle.
 - a. Share the formula if students do not: 2I + 2w = P
- 1. Display and introduce the Solving Area & Perimeter Problems page
 - a. Give students time to complete the page

C. Collector: Update

- 1. Spin the How Many Pieces? Spinner to determine how many dimes, quarters, or half-dollars to add to the collection.
- 1. Glue that number of pieces to the Dollar Grid and update the chart.



February: Day 20

Need:

-Fractions of a Dollar Student Book pages 32-33

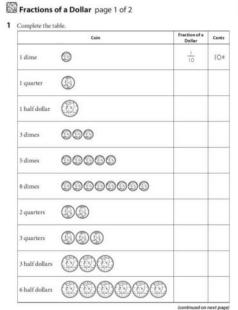
Fractions of a Dollar page 2 of 2

C. Grid: Update

- 1. Post one or more calendar markers so that the Calendar Grid is current.
- 2. Update the Calendar Grid Observation Chart.

C. Collector: 3-Reviewing Fractions of a Dollar (p. 21)

- Have students share observations and comparisons of the three collection charts.
 - a. Does anything surprise them?Do they see any patterns?
- Display Fractions of a Dollar Student Book pages.
- Read the directions and answer any questions before giving students time to complete it.



2 Show each fraction on a dollar grid. Then circle the fraction that is greater in each row.

\[\frac{1}{2} \text{ of a dollar} \]

\[\frac{3}{4} \text{ of a dollar} \]

\[\frac{3}{4} \text{ of a dollar} \]

\[\frac{2}{4} \text{ of a dollar} \]

Day	Date	Calendar Grid	Calendar Collector	Computational Fluency	Number Line	Solving Problems
1		Activity 1 Introducing the New Calendar Markers (p. 8)				
2		Update	Activity 1 Collecting Tenths of a Dollar (p. 17)			
3		Activity 2 Identifying Perimeter (p. 9)	Update			
4		Update	Update	Activity 1 Multiples of Three (p. 24)		
5		Update	Update		Activity 1 Labeling Number Lines with Halves, Fourths & Eighths (p. 28)	
6		Update	Update	Activity 1 Multiples of Four (p. 24)		
7		Activity 3 Identifying Area (p. 11)	Update			
8		Update	Activity 2 Collecting Fourths of a Dollar (p. 19)			
9		Update	Update		Activity 2 Labeling Number Lines with Thirds & Sixths & Playing Find the Fraction (p. 29)	
10		Update	Update	Activity 1 Multiples of Eight (p. 24)		
11		Update	Update			Activity 1 Looking at Graphs (p. 34)
12		Update	Update		Activity 3 Playing Find the Fraction (p. 30)	
13		Activity 4 Area & Perimeter Challenges (p. 12)	Update			
14		Update	Update			Activity 2 Interpreting Graphs (p. 35)
15		Update	Activity 2 Collecting Halves of a Dollar (p. 19)			
16		Update	Update	Activity 4 Scout Them Out (p. 25)		
17		Update			Activity 4 Thinking About Equivalent Whole Numbers & Fractions (p. 32)	
18		Update	Update			Activity 3 Making Graphs (p. 37)
19		Activity 5 Reviewing Area & Perimeter Concepts (p. 13)	Update			
20		Update	Activity 3 Reviewing Fractions of a			

February Grid Answer Key

About the Pattern:

- -The dimensions (height and width) of the rectangles increase in a predictable pattern
- -The areas increase in a predictable manner as a result of the increasing dimensions
- -The colors repeat in this sequence: red, orange, yellow, green, blue, indigo, violet

	á	登February 2015				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	-		•	.*		į.
1	2	3	4	5	6	7
-	-	-		-	•	
8	9	10	11	12	13	14
-				-	-	-
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Date	Height	Width	Color	Perimeter (cm)	Area (cm2
1	1	1	red	4	1
2	1	2	orange	6	2
3	1	3	yellow	8	3
4	2	2	green	8	4
5	2	3	blue	10	6
6	2	4	indigo	12	8
7	3	3	violet	12	9
8	3	4	red	14	12
9	3	5	orange	16	15
10	4	4	yellow	16	16
11	4	5	green	18	20
12	4	6	blue	20	24
13	5	5	indigo	20	25
14	5	6	violet	22	30
15	5	7	red	24	35
16	6	6	orange	24	36
17	6	7	yellow	26	42
18	6	8	green	28	48
19	7	7	blue	28	49
20	7	8	indigo	30	56
21	7	9	violet	32	63
22	8	8	red	32	64
23	8	9	orange	34	72
24	8	10	yellow	36	80
25	9	9	green	36	81
26	9	10	blue	38	90
27	9	11	indigo	40	99
28	10	10	violet	40	100
29	10	11	red	42	110
30	10	12	orange	44	120
31	11	11	yellow	44	121