# September Number Corner – Gr. 3



use an erasable marker.

them in future years. You'll post the first graph during Activity 1 and a second graph during Activity 4.

strips or other strips of paper for labels. If you laminate these elements

before writing on them, you can reuse

of teacher masters while students conduct surveys of their classmates during Activity 3 on days 6 and 11.

# September Materials Needed

Task		Don		
Copying	Run copies of Teacher Masters T1–T7, T9–T18, and T8 (optional) according to the instructions at the top of each master.			
	Run a single display copy of Number Corner Student Book pages 1–2.			
	If students do not have their own Number Corner Student Books, run a class set of pages 1–3.			
Charts	Prepare the Calendar Grid Observations Chart according to preparation instruc- tions in the Calendar Grid workout.			
	Prepare the Scaled Bar Graph and Scaled Picture Graphs according to prepara- tion instructions in the Calendar Collector workout.			
	Post the One Thousand Grid from your Number Corner kit on your display board before Number Line Activity 1 (day 5).			
Classroom Materials	Before conducting the Baseline Assessment, organize colored tiles and base ten materials (optional) according to preparation instructions.			
Special Tasks	ecial Tasks Set up a classroom area to teach problem strings, following preparation sugge tions in the Solving Problems workout.			

reuse it in future months.

### Calendar Grid Observations

Date	Model	Description	Equation

#### Vocabulary

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

array\* column date day equation\* even number\* group month multiply\* observe/observation odd number\* pattern\* product\* ratio table\* rectangular array row week year

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

1. Introduce the Calendar Grid:

3.

- a. Post today's calendar marker and any markers that come before
- 2. Read the date aloud while pointing to the labels. "Today is Tuesday, September 2nd, 2014."
  - Write the date on the class whiteboard, using the abbreviation for September. Review the "code date."
    - a. "September is the ninth month of the year."
- 4. Discuss the markers posted so far.
  - a. Have students share their observations

### C.Collector: 1-Introducing the Calendar Collector (p. 18)

- 1. Introduce the Calendar Collector: Write the word *data* on the board. Have students share what they know.
- 1. Share that the class with collect data by conducting surveys.
  - a. A survey is a way to collect data by asking people questions.
- 2. Today's survey will be about work preferences.
  - a. "When working on a challenging math problem or an interesting science experiment, do you prefer to do the work alone, with a partner, in a small group, or with the whole class?"
- 1. Show the blank bar graph and then conduct the survey with eyes closed. Record the results on the board.
- 1. Explain that this is a scaled graph where each box stands for more than one vote.
- 2. Have students share how they would fill in the graph for each column. Then fill each in.
- 3. Give the graph a title and label for the categories and the scale.

# September: Day 2

#### C.Grid: Update

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current to date.

### C.Collector: 2-What Would You Like to Know About Our Class? (p. 22)

- 1. Discuss the previous survey results.
  - a. What does the graph tell you about our class?
  - b. Which of these four different ways of working is most popular in our class? Least?
  - c. Did more people choose working alone or in a small group? How many more? How do you know?
  - d. Did fewer people choose working with the whole class or working in pairs? How many more? How do you know?
  - e. Who might find this information useful? Why?
  - f. If you conducted the same survey in another 3rd grade class, would you get the same results? Why or why not?
- 2. Work with student input to brainstorm a list of survey topics and questions. What are some things they would like to know about their classmates?
- 3. Record the ideas on the board, adding four choices for each question.

Need:

Sept. 2, 2014

9/2/14

- -Calendar Grid Markers
- -Blank bar graph (labeled columns)
- -Crayon or marker
- -Sentence strip labels





- chart paper or whiteboard

- marker

#### C.Grid: Update

<u>Need:</u> -Loops & Groups game (project on board)

-Whiteboards & markers for students

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - b. Write the date on the whiteboard.

#### Comp. Fluency: 1-Introducing Loops & Groups (p. 30)

- 1. Project Loops & Groups Game on SMART board.
- 2. Explain the game.
  - a. You will take turns with the class to spin both spinners. The first loops to draw; the second shows how many shapes you get to draw in each loop. After you spin and draw, multiply to find the total number of shapes in the loops. Each team takes four turns, and then they add up their products to find the total sum. The team with the greater sum wins.
- 1. Play the game as teacher versus class.
  - a. Students could draw their loops & groups on whiteboards during their turn.
- 1. Have students compare their sum to yours.
  - a. Which was greater? By how much?

# September: Day 4

#### C.Grid: 2-Charting Observations (p. 9)

- 1. Have students make a prediction about the next marker. Then post the marker and record the date.
- 1. Show students the Calendar Grid Observations Chart.
- 2. With student help, fill in the chart for all the days posted so far this month.
  - a. Describe each multiplication model briefly before filling in the chart.

#### Solving Problems: 1-Using Doubles to Solve Near Doubles (p. 45)

- 1. Have students get their math notebooks and a pencil. This month's Number Corner will include three problem strings.
  - a. A problem string is a series of related problems that students will solve and discuss one at a time. The problems get harder as the string continues. The problems at the beginning can be used to solve the problems toward the end.
- 1. Display the problem string on the board. Have students give a thumbs up when they have an answer. Write student strategies on the board.





- -Calendar Grid Observation Chart
- -Marker
- -Math notebooks
- -Pencils

Calendar Grid Observations						
Date	Model	Description	Equation			
1	Loop	I loop with a star in it	x   =   star			
2	Ratio Table	I bike, 2 wheels	x 2 = 2 wheels			
3	Picture	1 snowman, 3 spheres	I x 3 = 3 spheres			
4	Array	4 rows of 1 square each	4 x 1 = 4 squares			
5	Loops	5 loops, 1 apple in each loop	5 x 1 = 5 apples			

25 + 24	See splitting diagrams above. You can record strate- gies like these using equations as well.		
	25 + 24 = 25 + (25 - 1) 50 - 1 = 49  or		
	25 + 24 = 20 + 5 + 20 + 4 = 20 + 20 + 5 + 4 = 40 + 9 = 49		
25 + 28	See splitting diagrams above. You can record strate- gies like these using equations as well.		
	25 + 28 = 25 + (25 + 3) = 50 + 3 = 53 or		
	25 + 28 = 20 + 5 + 20 + 8 = 20 + 20 + 5 + 8 = 40 + 13 = 53		
40 + 40	Students who know that 4 + 4 = 8 and who have a solid sense of place value will know that 40 doubled is 80.		
38 + 40	See the splitting diagrams and equations above for		
39 + 41	examples of how you can record students' strategies.		
39 + 39			

#### <u>Need:</u> -One Thousand Grid

### <u>C.Grid: Update</u>

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - b. Write the date on the whiteboard.

### Number Line: 1-Introducing Spud- the Counting Game (p. 36)

- 1. Have students make observations about the One Thousand Grid.
- 2. The game Spud will use the One Thousand Grid. Students will count by 10s going around a circle. On each multiple of 100, the student will say "SPUD" instead of the number.
  - a. If the student says the number instead of "SPUD," they sit down. I
  - b. f the next person does not know what number, they must also sit down.
  - c. Play until the class reaches 1,000.

# September: Day 6

### C.Grid: 2-Charting Observations (p. 9)

- 1. Have students make a prediction about the next marker. Then post the marker and record the date.
- 1. Show students the Calendar Grid Observations Chart.
- 2. With student help, fill in the chart for all the days posted so far this month.
  - a. Describe each multiplication model briefly before filling in the chart.

### C.Collector: 3-Student Surveys (p. 24)

- 1. Choose one survey topic from the list the class brainstormed.
- 2. Write the four category choices on the Scaled Bar Graph.
- 3. Conduct the survey with eyes closed. Record the results on the board.
- 1. Work as a class to fill in the bar graph. Add a title and category labels.

cheese - 10	(5 boxes)
pepperoni - 7	(3 <sup>1</sup> / <sub>2</sub> boxes)
ham and pineapple - 6	(3 boxes)
veggie - 5	(2 ½ boxes)



10 12 14

pizza



-Chart paper or whiteboard

#### Need:

- Baseline assessment
- Red crayons
- Pencils
- Rulers

# September: Day 7

### C.Grid: Update

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
    - b. Write the date on the whiteboard.

### <u> Assessment: Baseline Assessment Part 1 (p. 52)</u>

- 1. Explain that a baseline assessment is a way of finding out where everyone is in math at the very start of school. It helps the teacher do a better job of teaching because they know what everyone needs to review and learn.
- 2. Explain that the class will listen to the instructions for each problem. They will work independently. They should try to answer all of the questions.
- 3. The first problem is timed but the rest are not. Encourage students to look for problems they know first and skip any that seem difficult. Start the timer, have students complete as many problems as they can, and then stop them when the timer ends.
- 4. Read the directions for the rest of page one and two. Then give students time to complete these problems.

# September: Day 8

### C.Grid: 2-Charting Observations (p. 9)

- 1. Have students make a prediction about the next marker. Then post the marker and record the date.
- 1. Show students the Calendar Grid Observations Chart.
- 2. With student help, fill in the chart for all the days posted so far this month.
  - a. Describe each multiplication model briefly before filling in the chart.

## Solving Problems: 2-Jumping by Friendly Numbers (p. 48)

1. Have students write the date and problem string title at the top of the page. As each problem is uncovered, have students solve and share their strategies.



- -Math notebooks
- -Pencils
- -Problem string

#### C.Grid. : Update

Need:

- Baseline Assessment
- Colored tiles
- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - b. Write the date on the whiteboard.

#### Assessment: Baseline Assessment Part 2 (p. 54)

- 1. Complete pages 3 & 4 of the Baseline Assessment
  - a. Read the directions and answer any questions
  - b. Show students the colored tiles that are available to help with problem seven.
  - c. Give students time to finish page 3 & 4.

## September: Day 10

#### C.Grid: Update

- Need:
- One Thousand Grid
- Two different color
- markers
- - a. Post one or more calendar markers so that the Calendar Grid is current.
  - b. Write the date on the whiteboard.

#### Number Line: 2-Spud Revisited (p. 38)

- 1. Review how to play SPUD. (Counting by 10s and saying SPUD on multiples of 100.)
- 2. Explain that you will cross off the numbers as students say them. You will also circle some numbers.
- 3. Play the game.
  - a. As students count by 10s, cross them off the grid. Circle a rank 📝

  - c. Work with the class to describe each of the circled numbers by how many hu

1. Have students share any final observations.

the board or ch

Y	/								
4	60 = 1	D T	ens						
	130 =	1	hundred	and	3	tens	or	13	tens
	270 =	2	hundred	and	7	tens	or	27	tens
	340 =	3	hundreds	and	4	tens	or	34	ten
	450 =	4	hundreds	and	5	tens	or	45	ten
	580 =	5	hundreds	and	8	tens	or	58	ten





#### C.Grid: Update

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - a. Write the date on the whiteboard.

#### Number Line: 3-From Grid to Line (p. 41)

- 1. Give each student a copy of the Student Number Line Teacher Master. Display your own copy for students to see.
- 2. Students will color the "SPUD" numbers in yellow. Then they will cut out each row and glue together on the "tab." (Model this first.)
- 3. Once all students have constructed their number lines, display the Number Line Clues with only the top showing.
- 4. Read each clue one at a time. Give students time to color the correct number and then call on a few students to share. (Encourage students to work with classmates near them.)
  - a. Record the correct answers below each clue.
- 5. After all the clues have been solved, have students put their number lines in an envelope or Ziploc and store in their math folder.



- -Student Number Line T.M.
- -Number Line Clues T.M.
- -Scissors
- -Glue sticks
- -Yellow crayons
- -Envelopes or Ziplocs

### C.Grid: Update

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - b. Write the date on the whiteboard.

### Comp. Fluency: 2-Loops & Groups Rematch (p. 33)

- 1. Project Loops & Groups Game on SMART board.
- 2. Review the game.
  - a. You will take turns with the class to spin both spinners. The first loops to draw; the second shows how many shapes you get to draw in each loop. After you spin and draw, multiply to find the total number of shapes in the loops. Each team takes four turns, and then they add up their products to find the total sum. The team with the greater sum wins.
- 1. Play the game as teacher versus class.
  - a. Students could draw their loops & groups on whiteboards during their turn.
- 1. Have students compare their sum to yours.
  - a. Which was greater? By how much?

# September: Day 14

### C.Grid: Making Predictions & Writing Equations (p. 11)

- 1. Update the Calendar Grid Observation Grid through the previous day.
  - a. Have students record an equation for each on their whiteboards.
- 2. Have students make predictions about today's calendar marker.
  - a. Post today's marker and write the date.
  - b. Students should write one or more equations on their whiteboards.
- 3. Have students share their equations while you write them on the board.
  - a. Choose one to write on the Observation Grid.

			· · ·			`			-0-
		ð Septe	ember	2014				4 + 4 + 4 + 4 = 16 4 × 4 = 16	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	16	2 + 2 + 2 + 2 + 8 = 1 $2 \times 8 = 16$ $(4 \times 2) + 8 = 16$	6
		Biles         Wheels           1         2           2         4           3         6	15rowman How many spheres?	4		Propie         Eyes           1         2           2         4           3         7           6		16 x 1 = 16	
1 Week How many days? 7	8	<b>8</b> 8 <b>8</b> 9	Nickels Cents 1 5 2 7 3 15 10	1 Socar Isan	12	() 13	SCars, 1 Her Tier macmany gentlemit	4 + 4 + 4 + 4 + 3 = 19 (4 + 4 + 4 + 4 + 4) - 1 20 - 1 = 19 $(5 \times 4) - 1 = 19$	=  9
Wreks         Days           1         7           2         7           3         21            14	3 Hands How many fingers? 15							(4 x 4) + 3 = 19	_/-

### Need:

- Whiteboards & markers (for students)



- -Loops & Groups game (project on board)
- -Whiteboards & markers for students

#### C.Grid: Update

1.

#### Need: -One Thousand Grid -Individual student number lines

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - b. Write the date on the whiteboard.

#### Number Line: 4-Number Riddles (p.42)

- 1. Have students get their number lines made on Day 12.
- 2. Students will work in pairs to identify which number each riddle is describing.
  - a. I'm thinking of the number that's between 420 and 440 on your number line. What's my number? [430]
  - b. I'm thinking of a number. If you jump by 100 four times starting at 370 you'll be on my number. What's my number? [770]
  - c. I'm thinking of a number that's 5 tens more than 150. What's my number? [200]
  - d. I'm thinking of a number that's 12 times more than 400. What's my number? [520]
  - e. I'm thinking of a number that's 33 tens more than 300. What's my number? [630]
  - f. I'm thinking of a number. If you double 2 hundreds + 2 tens you'll know my number. What's my number? [440]
  - g. I'm thinking of a number. If you start at 200 and add half of my number you'll be at 600. What's my number? [800]
  - a. I'm thinking of a number. It is 99 tens less than 1,000. What's my number? [10]
  - As you pose each riddle, give student pairs time to work together to find the answer.
    - a. Have students show thumbs up when they have an answer.
    - b. Call on pairs to share and explain their answers.
- 2. Circle the correct answers on the One Thousand Grid.

# September: Day 16

#### C. Grid: 3-Making Predictions & Writing Equations (p.11)

- 1. Update the Calendar Grid Observation Grid through the previous day.
  - a. Have students record an equation for each on their whiteboards.
- 2. Have students make predictions about today's calendar marker.
  - a. Post today's marker and write the date.
  - b. Students should write one or more equations on their whiteboards.
- 3. Have students share their equations while you write them on the board.
  - a. Choose one to write on the Observation Grid.

# Solving Problems: 3-Jumping to Get to a Friendly Number (p.49)

1. Have students write the date and problem string title at the top of the page. As each problem is uncovered, have students solve and share their strategies.



#### Need:

-Whiteboards & markers (for students)

- -Math notebooks
- -Pencils
- -Problem string



#### C.Grid: Update:

- 1. Have your student helper complete this update procedure everyday.
  - a. Post one or more calendar markers so that the Calendar Grid is current.
  - a. Write the date on the whiteboard.

#### Comp. Fluency: 3-Loops & Groups with a Partner (p.34)

- 1. Display the Partner Loops & Groups game sheet.
- 2. Review the rules of the game.
- 3. Each student pair needs one copy of the game sheet and a spinner overlay.
- 4. Give students the remaining time to play the game.

### Need:

-Partner Loops & Groups game sheets (half class set) -Spinner overlays (1 for every 2 students)

September: Day 19 C.Grid: 4-Completing the Multiplication	<b>Need:</b> -Pages 1 & 2 in Student books -Colored tiles	
<ol> <li>Explain each page and then give a. Make colored tiles availab</li> </ol>	students the rest of the time to c le for students to use	omplete.
<ul> <li>Multiplication Models page 1 of 2</li> <li>Draw a line from each of the multiplication models to the matching equation. Then fill in the blank to show the answer.</li> <li> <b>4</b> × 5 =      </li> </ul>	<ul> <li>Multiplication Models page 2 of 2</li> <li>3 One day, Jacob saw 4 ladybugs sitting on a leaf. Each ladybug had 4 spots.</li> <li>a How many spots in all? Use numbers, labeled sketches, or words to help this problem.</li> </ul>	o solve
3×4= 砂砂砂砂 3×6=	<b>b</b> Which equation matches this problem? Fill in the bubble to show. $\bigcirc$ $4 + 4 = 8$ spots $\bigcirc$ $4 \times 4 = 16$ spots $\bigcirc$ $4 + 4 + 4 = 12$ spots $\bigcirc$ $4 - 4 = 0$ spots <b>4</b> Write a story problem to match this equation: $8 \times 2 = 16$ .	
$\frac{\frac{\cos 1}{1}}{3}   \frac{4}{5}$ 2 × 7 = 2 Make a sketch of one of the multiplication models you studied this month to match each expression. Choose a different model for each expression. $2 \times 4$ $3 \times 5$ $6 \times 2$	5 CHALLENGE There was a tree with 3 branches. On each branch there were 3 c each cage there were 3 birds. How many birds in all? Use numbers, labeled or words to help solve this problem. Show all your work.	ages. In sketches,
Number Comer Grade 3 Student Book 0 The Math Learning Center   mathlearningcenter.org	Number Corner Grade 3 Student Book 2 OThe Math Learning Center   mathlearn	ingcontecorg

#### C. Grid: 3-Making Predictions & Writing Equations (p.11)

- 1. Update the Calendar Grid Observation Grid through the previous day.
  - a. Have students record an equation for each on their whiteboards.
- 2. Have students make predictions about today's calendar marker.
  - a. Post today's marker and write the date.
  - b. Students should write one or more equations on their whiteboards.
- 3. Have students share their equations while you write them on the board.
  - a. Choose one to write on the Observation Grid.



### Need:

- Whiteboards & markers (for students)

## 🗹 September Daily Planner

Day	Date	Calendar Grid	Calendar Collector	Computational Fluency	Number Line	Solving Problems	Assessment
1		Activity 1 Introducing the September Calendar Markers (p. 8)	Activity 1 Introducing the Calendar Collector (p. 18)				
2		Update	Activity 2 What Would You Like to Know About Our Class? (p. 22)				
3		Update		Activity 1 Introducing Loops & Groups (p. 30)			
4		Activity 2 Charting Observations (p. 9)				Activity 1 Using Doubles to Solve Near Doubles (p. 45)	
5		Update			Activity 1 Introducing Spud— the Counting Game (p. 36)		
6		Activity 2 Charting Observations (p. 9)	Activity 3 Student Surveys (p. 24)				
7		Update					Baseline Assessment, Part 1 (p. 52)
8		Activity 2 Charting Observations (p. 9)				Activity 2 Jumping by Friendly Numbers (p. 48)	
9		Update					Baseline Assessment, Part 2 (p. 54)
10		Update			Activity 2 Spud Revisited (p. 38)		
11		Activity 3 Making Predictions & Writing Equations (p. 11)	Activity 3 Student Surveys (p. 24)				
12		Update			Activity 3 From Grid to Line (p. 41)		
13		Update		Activity 2 Loops & Groups Rematch (p. 33)			
14		Activity 3 Making Predictions & Writing Equations (p. 11)					
15		Update			Activity 4 Number Riddles (p. 42)		
16		Activity 3 Making Predictions & Writing Equations (p. 11)				Activity 3 Jumping to Get to a Friendly Number (p. 49)	
17		Update	Activity 4 Which Read-Aloud? (p. 26)				
18		Update		Activity 3 Loops & Groups with a Partner (p. 34)			
19		Activity 4 Completing the Multiplication Models Page (p. 13)					
20		Activity 3 Making Predictions & Writing Equations (p. 11)					

Note On days when the Calendar Grid is not featured in an activity, a student helper will update it before or after Number Corner. Summaries of the update routines appear below.

Calendar Grid — If the Calendar Grid isn't one of the featured workouts for the day, the student helper posts the marker before or after the class meets for Number Corner and records the day's date on the whiteboard.

# September Calendar Grid Answer Key

#### About the Pattern:

- The first pattern students will likely become aware of is the ABCD pattern in the types of visuals/ models shown on the markers; looped groups, ratio table, picture, rectangular array.
- Another pattern students might observe within the first week or two is the fact that the product always matches the date. The rectangular array on the marker for the 8th is composed of 8 squares. There are 3 hexagons in each of 3 loops on the 9th. The number of cents in 2 nickels corresponds to the date on the marker for the 10th, and there is 1 group of 11 on the marker for the 11th.
- The arrays are patterned by color: red, blue, yellow; red, blue, yellow.
- The arrays of squares on Markers 4, 8, 12, 16, 20, and so on, are arranged into 4 rows, 4 rows, 3 rows; 4 rows, 4 rows, 3 rows (i.e., 4 x 1, 4 x 2, 3 x 4, 4 x 4, 4 x 5, 3 x 8).
- The rectangular arrays are all multiples of 4: 4, 8, 12, 16, 20, 24, and so on. It might be noted that all of these numbers are even.

Date	Model	Description	Equation
1	Loop	1 loop with 1 star	1 × 1 = 1 star
2	Ratio Table	1 bike with 2 wheels	$1 \times 2 = 2$ wheels
3	Picture	1 snowman with 3 spheres	1 × 3 = 3 spheres
4	Array	4 rows with 1 square each	4 × 1 = 4 squares
5	Loop	5 loops with 1 apple in each loop	5 × 1 = 5 apples
6	Ratio Table	3 people with 2 eyes each	3 × 2 = 6 eyes
7	Picture	1 week with 7 days each	1 × 7 = 7 days
8	Array	4 rows with 2 squares each	4 × 2 = 8 squares
9	Loop	3 loops with 3 hexagons each	3 × 3 = 9 hexagons
10	Ratio Table	2 nickels equal 10 cents	2 × 5 = 10 cents
11	Picture	1 soccer team with 11 players	1 × 11 = 11 players
12	Array	4 rows with 3 squares each	4 × 3 = 12 squares
13	Loop	1 loop with 13 stars	1 × 13 = 13 stars
14	Ratio Table	2 weeks equal 14 days	2 × 7 = 14 days
15	Picture	3 hands with 5 fingers each	3 × 5 = 15 fingers
16	Array	4 rows with 4 squares each	4 × 4 = 16 squares
17	Loop	1 loop with 17 balloons	1 × 17 = 17 balloons
18	Ratio Table	3 hexagons with 6 sides each	3 × 6 = 18 sides
19	Picture	5 cars with a total of 1 flat tire and 19 good tires	5 × 4 - 1 = 19 tires
20	Array	4 rows with 5 squares each	4 × 5 = 20 squares
21	Loop	7 loops with 3 bugs each	7 × 3 = 21 bugs
22	Ratio Table	2 soccer teams have 22 players	2 × 11 = 22 players
23	Picture	3 spiders with 8 legs each, except one spider has a missing leg	3 × 8 – 1 = 23 legs
24	Array	3 rows with 8 squares in each	3 × 8 = 24 squares
25	Loop	5 loops with 5 stars in each	5 × 5 = 25stars
26	Ratio Table	2 Besty Ross flags with 13 stars each	2 × 13 = 26 stars
27	Picture	9 shamrocks with 3 leaves each	9 × 3 = 27 leaves
28	Array	4 rows of 7 squares each	4 × 7 = 28 squares
29	Loop	1 loop with 29 dots	1 × 29 = 29 dots
30	Ratio Table	5 insects with 6 legs each	5 × 6 = 30 legs
31	Picture	October has 31 days	1 × 31 = 31 days