MARTIN'S math club
Season 4

Lesson Plan

4th Grade

Number Sense and Base Ten

Make Those Baskets

Objective:

By the end of the lesson/activity, the students will be able to:

- Recognize math periods and number patterns to read and write in standard form.

Materials:

- "Rearrange the Basketballs" handout
- "Basketball Numbers" activity sheet
- Resealable bags

Teacher Preparation:

- Copy and cut the "Basketball Numbers" sheet for each student and place in the resealable bags.
- Copy the "Rearrange the Basketballs" handout for each student.

Activity:

- Allow the students to choose 6 numbers from the bag and place them at the top of their "Rearrange the Basketballs" handout.
- Before the students complete their place-value charts, require them to rearrange the basketballs to determine the best answer.
- Facilitate this activity by walking around, asking questions, and assisting as needed.

Question(s):

- "[Student Name], how many times did you have to rearrange your basketballs to find out whether this number is the largest/smallest?"
- "[Student Name], how do you know this arrangement makes this the largest/smallest possible number?"
- "[Student Name], I noticed you wrote [number] in the hundred thousands place. What number did you not pick that could go there and make the number larger?"

South Carolina College- and Career-Ready Standards for Mathematics:
4.NSBT.2 Recognize math periods and number patterns within each period to read and write in standard form large numbers through 999,999,999.

Extensions:

- Model the activity with a think aloud if the activity is an introduction to a lesson.
- Require the students apply the algorithm, as well as, the place value to add the values.

Name: _____ Date: _____ Period: ___

Rearrange the Basketballs

Directions: Pick 6 numbers and place them in the space below.

Pick 1	Pick 2	Pick 3	Pick 4	Pick 5	Pick 6

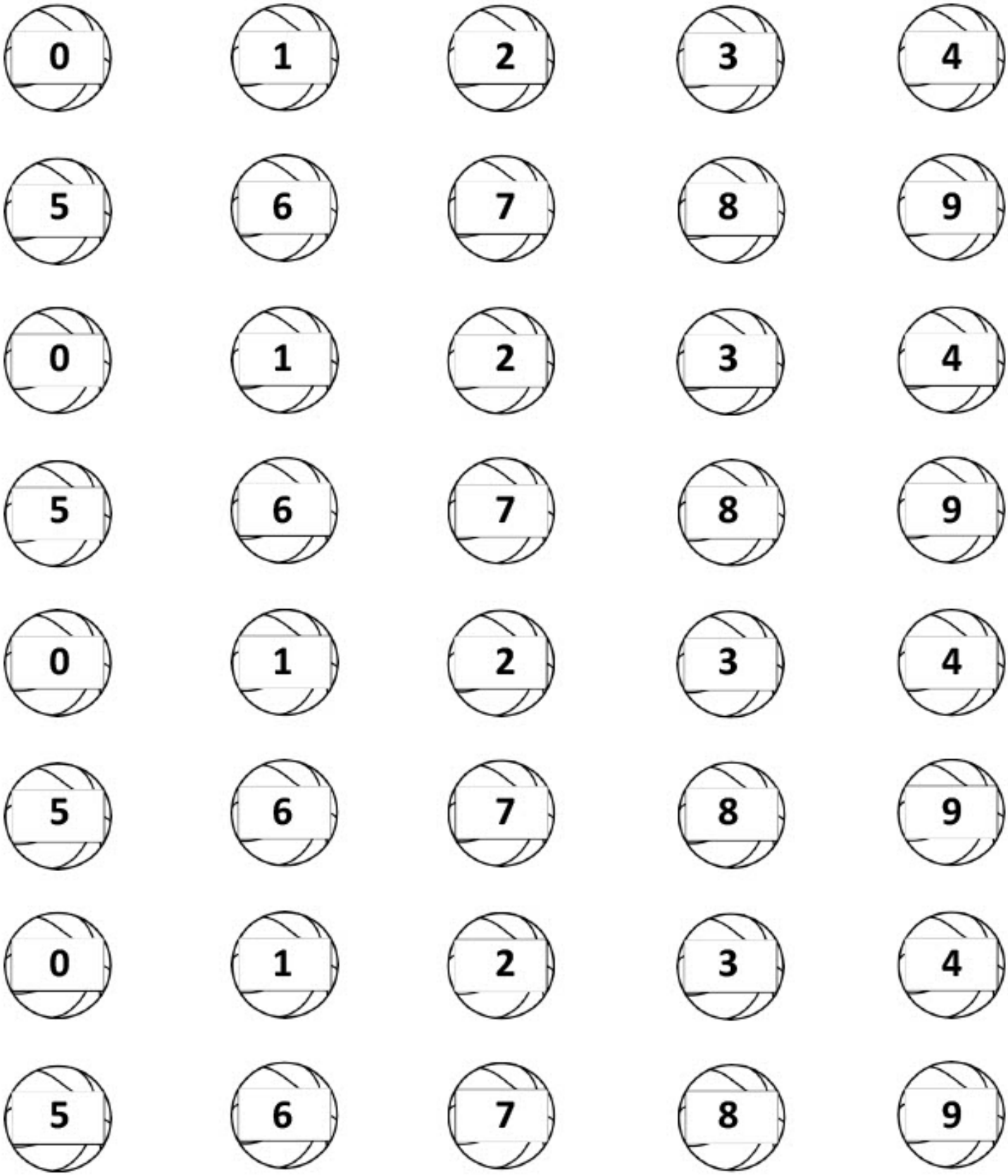
Directions: Rearranged the numbers to make the biggest number possible. Write it the space below.

Millions			Thousands			Ones		
Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Directions: Rearranged the numbers to make the biggest number possible. Write it the space below.

Millions			Thousands			Ones		
Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Directions: Rearranged the numbers to make a number closest to 3,000 without going over. Write it the space below.

Millions			Thousands			Ones		
Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Basketball Numbers