Personal note from Sara VanDerWerf

- I use this task the first week of school.
- I like it because it is 'safe'. Students don't need to know one another to engage in the task.
- I follow up this task in the next couple of days with tasks with richer mathematics so students believe group work will be a norm in mathematics class.

100 Numbers Group Task Directions

Goal: Students will name features of good group work in a safe beginning of the year activity.

- Students work in groups of 3-5
- Each student has a highlighter.
- Each group has one copy of slide 4.
- Give the groups 2 minutes to find the as many of the numbers from 1-100, consecutively, as possible
- At 2 min call time and have students put highlighters down. Students have usually found between 15-40 numbers. Have groups discuss strategy of how they found the numbers.
- Repeat the task with a new sheet of paper and 2 more minutes.
- Have students discuss again and then discuss as a class. Show pattern on slide 7 (numbers are 1 per quadrant working clockwise around and around)
- Do 3rd time. Usually one group gets to 100 during their 3rd try.
- **Teacher task:** During students working time, take photos of each group without them noticing.
- After the 3rd try, show the photos to students in your class working with their groups and ask then to list what good group work looks like.
- Write a class list of features of quality group work.

Number Trouble

- I'm going to set the timer for two minutes.
- When I say 'go' you will try to circle/highlight all the numbers from 1-100 in order. (1,2,3...100)
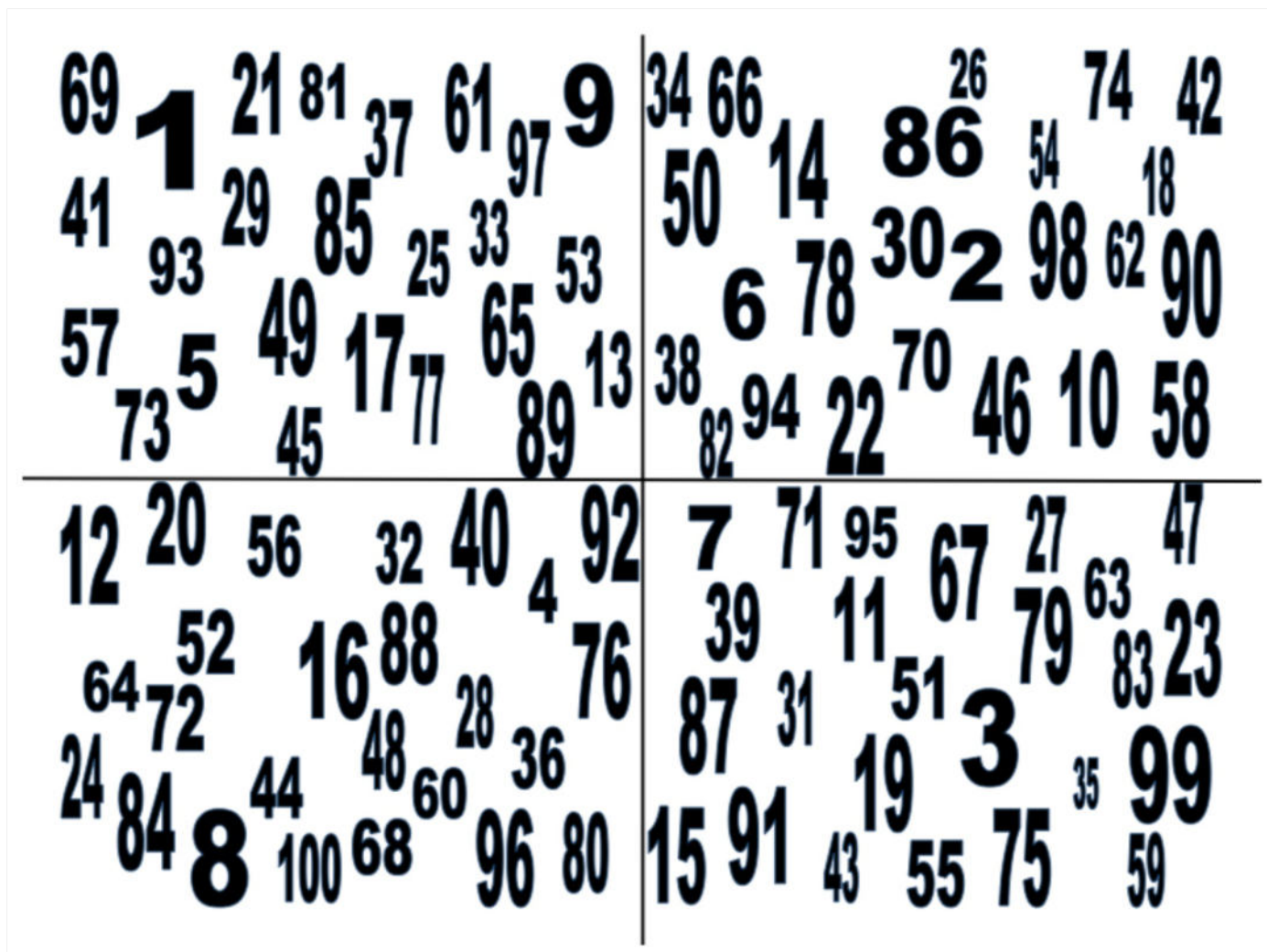- You are trying to get as many numbers circled/highlighted as you can

- Some of you might have noticed a pattern.

- Keep it a secret! You are now going to compete with your group against the rest of the class.

- Talk with your team and come up with a plan to get all the numbers circled or highlighted.

Shoulder Partner

- **Share what worked or did not work with your group completing this task.**

- **Was there a pattern you noticed?**

- **How did working as a group help us accomplish more?**

- **How did knowing the pattern make your work easier?**

69 1 21 81 37 61 97 9
41 29 85 33
93 25
57 49 17 65 53
5 77 13
73 45 89

34 66 26 74 42
50 14 86 54 18
78 30 2 98 62 90
6 70 46 10 58
38 94 22
82

12 20 56 32 40 92
4
52 88 76
64 16 28
72 48 36
24 44 60
84 8 100 68 96 80

7 71 95 27 47
67 63
39 11 79 23
83
87 31 51 3
19 99
35
15 91 43 55 75 59
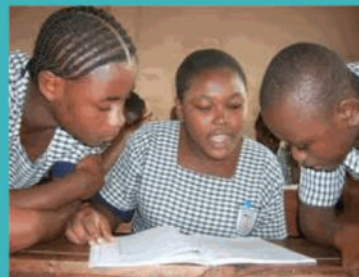
Note to teachers

The Pattern:
Numbers are one per quadrant going clockwise from the upper left quadrant.
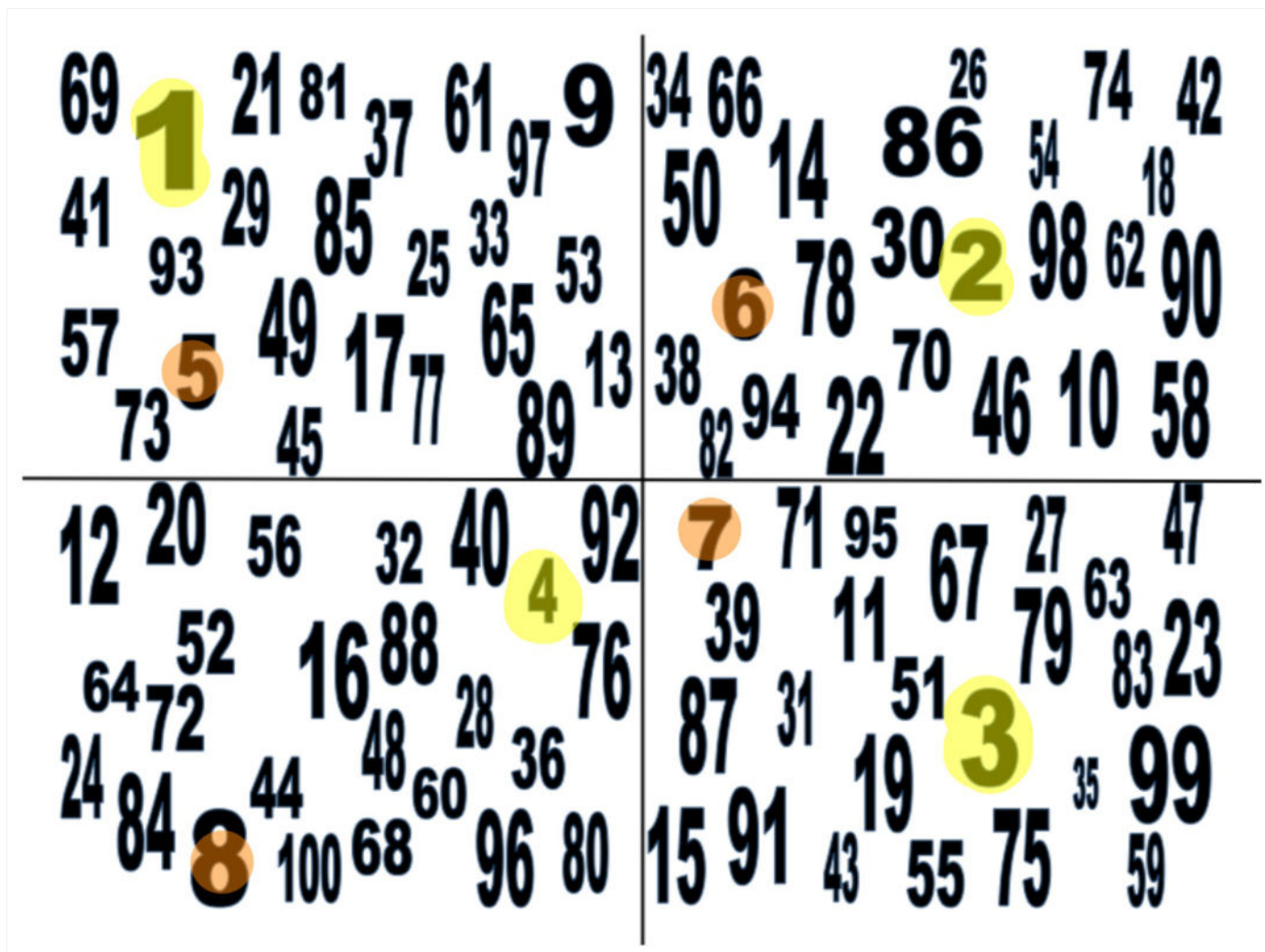
Teacher Directions:
Show the pictures you took of your students working in groups. Ask students what they notice. Chart what your class names.

Group work looks like...

Sounds like

Teacher Directions:

- Combine the lists of what quality group work looks like from all classes.
- Copy group photos and post in classroom.
- Post this list to refer to anytime you do group work during the year.
- During your next group work task, point to the photos and ask students to name again what we expect during group work time.

Here are some of the pics from my classroom from this activity.

Example of what my classes created of what quality group work looks like.

What does group work in mathmatics class look like?

- All group members are FOCUSED. Members are only talking to members of their group.
- Group members are close (heads are together).
- Every group member participates. All group members are included.
- Everyone uses an appropriate voice (2 foot voice).
- Everyone is working on the assigned task.
- The group makes a plan before beginning the task.
- Group members support each other (help each other).
- Group members are all communicating (ask questions and sharing ideas).