Eureka Math

1st Grade
Module 1
Lesson 22

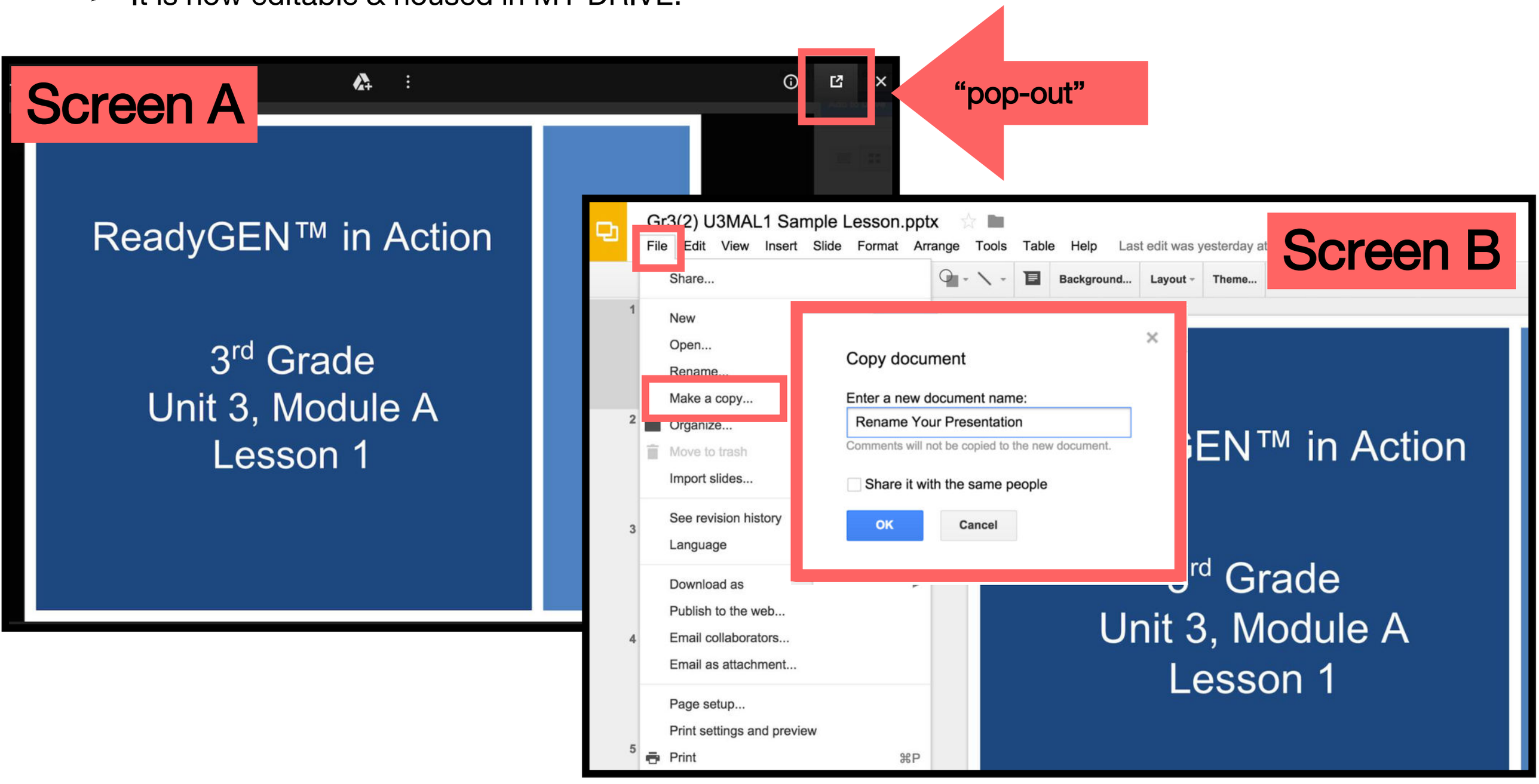
At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.

Customize this Slideshow

Reflecting your Teaching Style and Learning Needs of Your Students

- When the Google Slides presentation is opened, it will look like Screen A.
- Click on the “pop-out” button in the upper right hand corner to change the view.
- The view now looks like Screen B.
- Within Google Slides (not Chrome), choose FILE.
- Choose MAKE A COPY and rename your presentation.
- Google Slides will open your renamed presentation.
- It is now editable & housed in MY DRIVE.

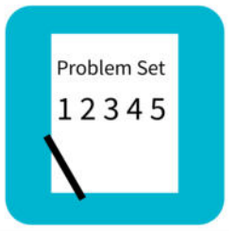


Icons

Read, Draw, Write

Learning Target

Personal White Board

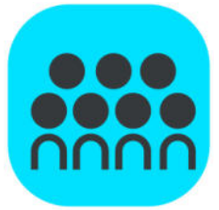


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

Small Group Time

Materials Needed

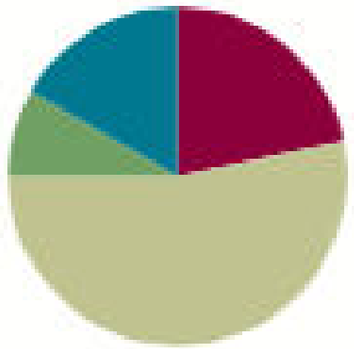
- T) Addition chart with sums to 10 (Lesson 21 Template)
- (T) Cover paper for Addition Chart
  - The addition chart is projected for some of the lesson, but a paper copy and cover paper is needed for some of the lesson.

Lesson 22

Objective: Look for and make use of repeated reasoning on the addition chart by solving and analyzing problems with common addends.

Suggested Lesson Structure

Fluency Practice	(13 minutes)
Application Problem	(5 minutes)
Concept Development	(32 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can look for and make use of repeated reasoning on the addition chart by solving and analyzing problems with common addends.

Sparkle: Counting by Twos

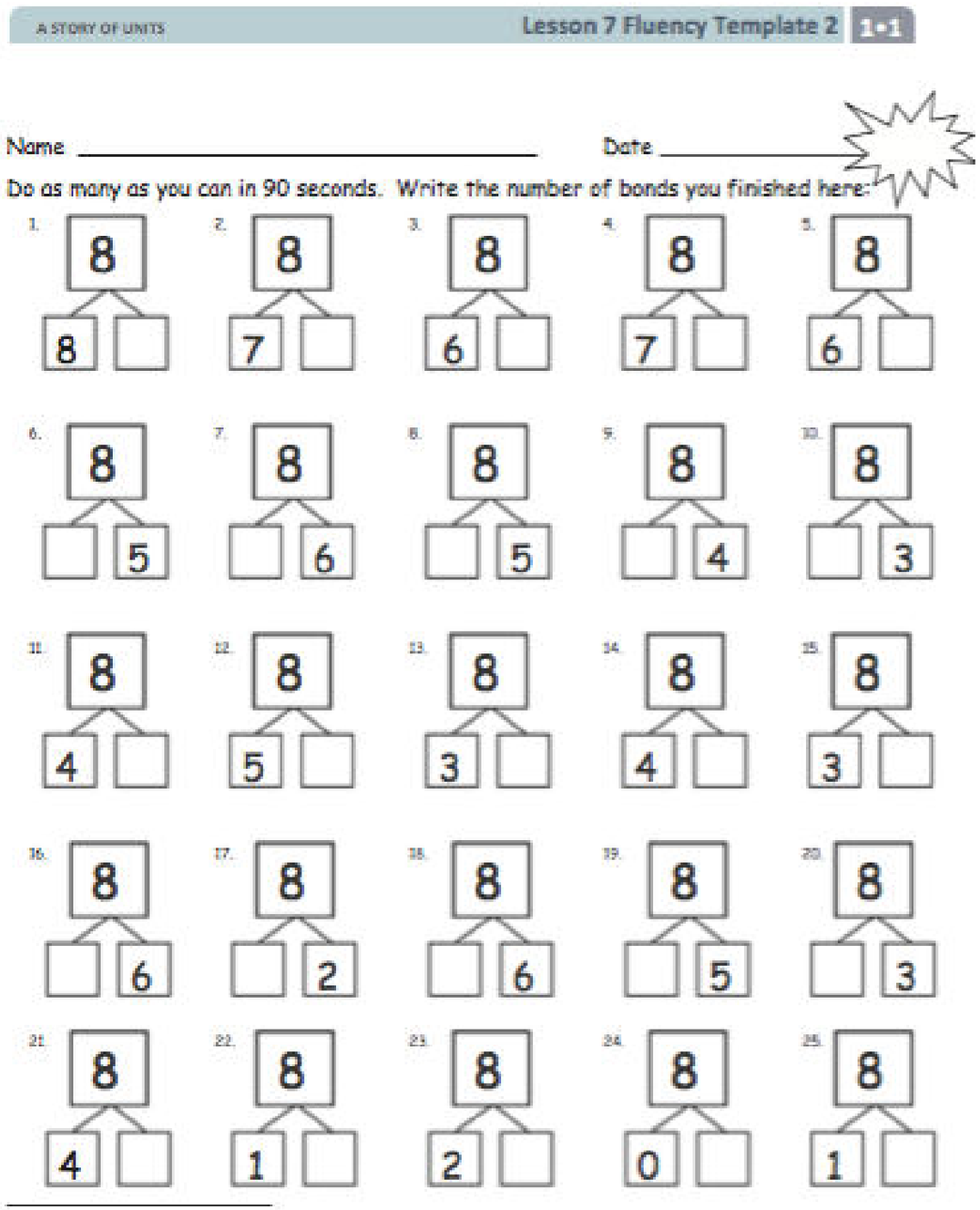
Play Sparkle, counting by twos from 0 to 20.

Penny Drop: 8

I’ll show you 8 pennies. Close you eyes and listen. I’ll drop some of the pennies in a can, one at a time. Open your eyes and say how many pennies are still my hand!

Number Bond Dash: 8

Let’s do a Number Bond Dash!



A STORY OF UNITS — Lesson 7 Fluency Template 2 — 1•1

Name _____ Date _____

Do as many as you can in 90 seconds. Write the number of bonds you finished here: _____

1. 8 = 8 + ☐	2. 8 = 7 + ☐	3. 8 = 6 + ☐	4. 8 = 7 + ☐	5. 8 = 6 + ☐
6. 8 = ☐ + 5	7. 8 = ☐ + 6	8. 8 = ☐ + 5	9. 8 = ☐ + 4	10. 8 = ☐ + 3
11. 8 = 4 + ☐	12. 8 = 5 + ☐	13. 8 = 3 + ☐	14. 8 = 4 + ☐	15. 8 = 3 + ☐
16. 8 = ☐ + 6	17. 8 = ☐ + 2	18. 8 = ☐ + 6	19. 8 = ☐ + 5	20. 8 = ☐ + 3
21. 8 = 4 + ☐	22. 8 = 1 + ☐	23. 8 = 2 + ☐	24. 8 = 0 + ☐	25. 8 = 1 + ☐

Application Problem

May and Kay are twins. Whatever May has, Kay has it, too. May has 2 dolls. How many dolls do May and Kay have together? May has 3 stuffed animals. How many stuffed animals do they have together? Write a number bond, number sentence, and statement to show your solution.

Concept Development

Mathematicians, today you need to especially put on your noticing ears and eyes! Read the expressions aloud with me.

Concept Development

What did you notice was the same as you read each of these expressions?

Concept Development

We said “plus zero” every time!

Concept Development

What did you notice was different as you read each of these expressions?

Concept Development

The first number went up by 1 each time!

Concept Development

Good. Now, let's solve each problem together!

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

Concept Development

Look at 1 + 0 and 2 + 0.

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								
10 + 0									

Concept Development

You said that these problems add zero each time. How does adding zero change this first addend, or part?

Concept Development

The first addend doesn’t change, because we’re just adding zero!

Concept Development

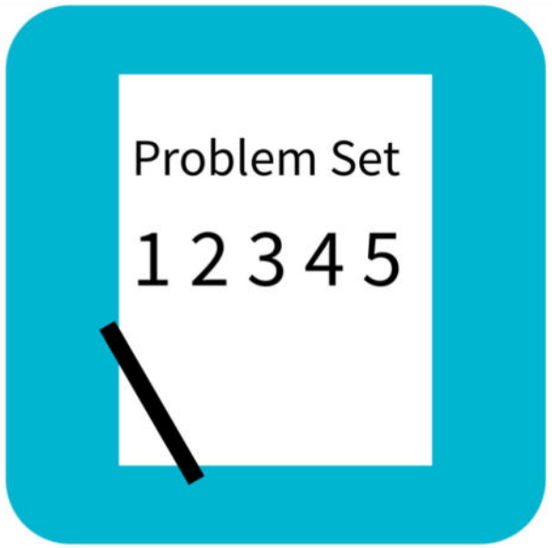
So, it’s zero more than the first number? Is this true of all of the facts in this area?

Concept Development

You said that all of these problems add 1 each time.
How does adding 1 change this first addend?

Concept Development

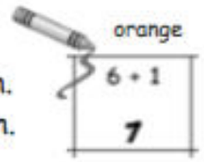
The total goes up by 1, because we’re adding on! It’s just the next counting number!



Problem Set

Name _____ Date _____

1. Use RED to color boxes with 0 as an addend. Find the total for each.
2. Use ORANGE to color boxes with 1 as an addend. Find the total for each.
3. Use YELLOW to color boxes with 2 as an addend. Find the total for each.
4. Use GREEN to color boxes with 3 as an addend. Find the total for each.
5. Use BLUE to color the boxes that are left. Find the total for each.



1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + 3	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + 1	4 + 2	4 + 3	4 + 4	4 + 5	4 + 6			
5 + 0	5 + 1	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + 1	6 + 2	6 + 3	6 + 4					
7 + 0	7 + 1	7 + 2	7 + 3						
8 + 0	8 + 1	8 + 2							
9 + 0	9 + 1								

Debrief

- Look at your Problem Set. We talked about how all the problems add 1 each time in this column. (Gesture going up and down on +1 column.) Is that the only place that had problems adding 1 each time?
- How are the second column (n + 1) and the first row (1 + n) related? Does this remind you of another math lesson?
- Which row is the third column related to? What addend, or part, do they have in common?
- Look at your Application Problem. Can you find the expressions from your number sentences on the
- chart? What do you notice about their locations?
- Which colored boxes have the easiest facts for you to solve? Why?
- Which colored boxes have the facts you need the most practice with? Why?

Exit Ticket

Name _____ Date _____

Some of the addends in this chart are missing! Fill in the missing numbers.

1 + 0	1 + 1	1 + 2	1 + 3	1 + 4	1 + 5	1 + 6	1 + 7	1 + 8	1 + 9
2 + 0	2 + 1	2 + 2	2 + __	2 + 4	2 + 5	2 + 6	2 + 7	2 + 8	
3 + 0	3 + 1	3 + 2	3 + __	3 + 4	3 + 5	3 + 6	3 + 7		
4 + 0	4 + __	4 + 2	4 + 3	__ + 4	__ + 5	__ + 6			
5 + 0	5 + __	5 + 2	5 + 3	5 + 4	5 + 5				
6 + 0	6 + __	6 + 2	6 + 3	6 + 4					
7 + __	7 + 1	7 + 2	7 + 3						
8 + __	8 + 1	8 + 2							
9 + __	9 + 1								
10 + 0									