GO MATH!
Chapter 4 – 2-Digit Addition
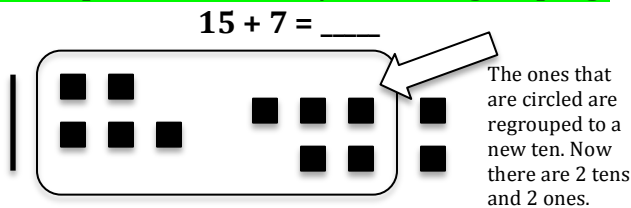
Chapter Essential Question:
How do you use place value to add 2-digit numbers, and what are some different ways to add 2-digit numbers?
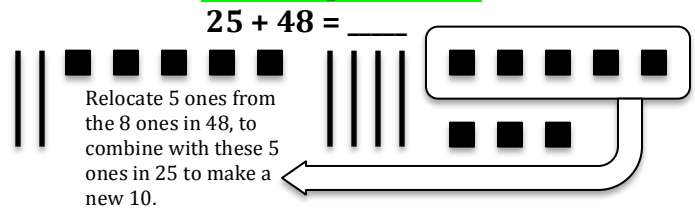
Chapter Vocabulary:
regroup: an action that involves changing a number from one form to an equivalent form.

What should you know?

Break apart ones to add/model regrouping:

15 + 7 = ____

The ones that are circled are regrouped to a new ten. Now there are 2 tens and 2 ones.

Use Compensation:

25 + 48 = ____

Relocate 5 ones from the 8 ones in 48, to combine with these 5 ones in 25 to make a new 10.

Break apart addends as tens and ones:

$$35 \Rightarrow 30 + 5$$
$$+54 \Rightarrow 50 + 4$$
$$80 + 9 = 89$$

$$43 \Rightarrow 40 + 3$$
$$+ 29 \Rightarrow 20 + 9$$
$$60 + 12 = 72$$

Record and Solve 2-digit addition:

STEP 1: Model 37+26. Are there 10 ones to regroup?

TENS	ONES
3	7
2	6

Step 2: Write the regrouped ten. Write how many ones are in the ones place now.

TENS	ONES
1	
3	7
2	6
	3

Step 3: How many tens are there? Write how many tens are in the tens place.

TENS	ONES
1	
3	7
2	6
6	3

Rewrite 2-digit addition:

28 + 45 = ___

Turn the problem vertical so it's easier to solve. Be sure to line up the tens and ones.

$$\begin{array}{r} 2\,8 \\ +\ 4\,5 \\ \hline \end{array}$$

Find sums for 3 or more addends:

$$\begin{array}{r} 5 \swarrow 1 \\ 47 \searrow 8 \\ 21 \\ +\ \ 7 \\ \hline 75 \end{array}$$

When you add 8+7 you get 15. Put the 5 at the bottom of the ones column and regroup the ten to add to the tens column. Then add the tens together and write the answer at the bottom of the tens column.
*Hint: Add 2 numbers together at a time.