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http://www.teacherspayteachers.com /Store/Susan-Hardin Click <u>here</u> to take a look at Adding with Place Value for the Common Core..

This product includes slides for viewing on a Smart board that show step by step how to add with three different strategies. Included is a set of task cards to be used with the open number line. Also there are black and white pages for use as classwork or homework.



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Clipart: The 3am Teacher and Digiweb Studio Fonts: Lettering Delights Susan Hardin © 2012 How to Add on an Open Number Line

A "How-To" Guide for Parents

There are 165 students at Warner Robins Dance Academy School and 221 students at Kathleen Dance Academy. How many students are in both academies? Write an equation and show your thinking.

**Step I:** Determine what the problem is asking and write an equation.

165 + 221 =

Step 2: Draw a open number line and place the first addend on the left side on the number line.

165

 $\leftarrow$ 

Step 3: Start adding by looking at the number in the <u>hundred's place</u> of the next addend. In this case look at the first 2 in 221. Indicate the addition, with +100 above an arrow. Where the arrow ends, write the sum of 165 + 100, which is 265.



Step 4: Next add the number in the <u>ten's place</u>. In this case look at the second 2 in 221. Indicate the addition, with +10 above each arrow. At each point where the arrow ends, write the new sum, the previous number + 10.







3

Name

# Add Using an Open Number Line

I. Susan had 547 photos in her photo album. She needed to put 218 new pictures in the album. How many total photos will she have in her album? *Write an <u>equation</u> and show your thinking*.

2. We had 174 red balloons and 213 blue balloons at our Fourth of July party. How many total balloons did we have? *Write an <u>equation</u> and* <u>show your thinking</u>.

#### How to Subtract with Place Value Blocks (no trading)

A "How-To" Guide for Parents

## Sue's coloring book has 153 pages. She has colored 132 pages so far. How many pages does Sue have left to color? Write an <u>equation</u> and show <u>your thinking</u>.

Step I: Determine what the problem is asking and write an equation.

153 – 132 = \_\_\_\_\_

<

Step 2: Draw a open number line and place the larger number on the <u>right</u> side on the number line.

**Step 3:** Start subtracting by looking at the number in the <u>hundred's place</u>. In this case look at the I in <u>132</u>. Indicate the subtraction, with -100 (minus 100) above an arrow. Where the arrow ends, write the difference from 153 - 100, which is 53.



**Step 4:** Next subtract the number in the <u>ten's place</u>. In this case look at the second **3** in **1**<u>3</u>**2**. Indicate the subtraction, with -10 (minus 10) above each arrow. Subtract 3 groups of 10 (30). At each point where the arrow ends, write the new difference.







**Step 6:** Write the new equation with the answer. (They must not forget to write an answer.)

153

5

Name \_

### Subtract using an Open Number Line

*I.* Jennifer had \$542 in her savings account. She spent \$314 on a new game system. How much money does he have left? *Write an <u>equation</u> and show your thinking.* 

2. Dallas had 434 baseball cards in his collection. Hunter had 318 baseball cards in his collection. How many more baseball cards did Dallas have than Hunter? *Write an <u>equation</u> and show your thinking.* 

#### How to Add using Break Apart Method (expanded form)

A "How-To" Guide for Parents

Reagan colored 132 pages in her coloring book. Sandy colored 241 pages in her coloring book. How many pages did both girls color altogether? *Write an <u>equation</u> and show <u>your thinking</u>.* 

Step 1: Determine what the problem is asking and write an equation.

132 + 241 =\_\_\_\_\_

Step 2: Break apart each number into						Step 3: Then add within each place value.					
expanded form.						Next, add the sums. (300+70+3=373)					
132 =	100	+	30	+	2	132 = 100 30 2					
241 =	200	+	40	+	1	+ 200 + 40 + 1					
						The Answer 🖙 300 + 70 + 3					

Step 4: Write the new equation with the answer.

132 + 241 = <u>373</u>

Lisa had 124 stuffed animals. She gave her younger sister 13. How many stuffed animals does Lisa have left? *Write an <u>equation</u> and show <u>your thinking</u>.* 

Step 1: Determine what the problem is asking and write an equation.

124 – 13 =\_\_\_\_\_

Step 2: Break apar	t each number into	Step 3: Then subtract within each place value.					
expanded for	orm.	Next	, add the	e differe	ences (10	0+ 0+ = <b>   </b> )	
124 = 10	0 + 20 + 4	124 =	100	20	4		
13 =	10 + 3	13 =	-	<b>-</b> 10	<b>-</b> 3		
		The Answer 🖚	100	+ 10	+ 1		

Step 4: Write the new equation with the answer.

Name

## Add & Subtract using Break Apart Method (expanded form)

I. There were 126 people at the ballpark on Saturday. On Sunday there were 231. How many people were at the ballpark on both days? Write an <u>equation</u> an show your thinking.

2. Our class collected 583 pennies for charity. The class next door collected 360 pennies? How many more pennies did we collect than the class next door? *Write an <u>equation</u> and show your thinking.*