North Penn School District

Elementary Math Parent Letter

Grade 2

Unit 2 - Chapter 4: 2-Digit Addition

Examples for each lesson

Lesson 4.1

Break Apart Ones to Add

Use place value understanding and properties of operations to add and subtract.

Sometimes when you are adding, you can break apart ones to make a ten.

$$37 + 8 =$$
 ?

Look at the two-digit addend, 37. What digit

is in the ones place? 7

Decide how many you need to add to the ones digit to make 10.

$$7 + 3 = 10$$
, and $37 + 3 = 40$

Break apart that number from the one-digit addend, 8.

$$8 - 3 = 5$$

Finally, write the new number sentence. 40 + 5 = 45

Lesson 4.2

Use Compensation

Use place value understanding and properties of operations to add and subtract.

This is a way to add 2-digit numbers.

Take ones from one addend to make the other addend a tens number.

$$27 + 38 = ?$$

First, find the addend with the greater ones digit. $\frac{38}{100}$ How many ones would you need to add to make it a tens number?

$$38 + \underline{\hspace{1cm}} = 40$$
 Add $\underline{\hspace{1cm}} 2$ to make $\underline{\hspace{1cm}} 40$

Next, take that many ones away from the other addend.

$$27 - 2 = 25$$
 The two new addends are 25 and 40

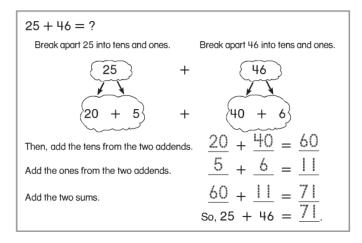
Write the new addition sentence to find the sum.

$$25 + 40 = 65$$

Lesson 4.3

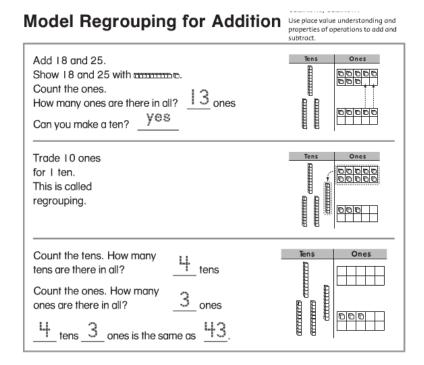


Use place value understanding and properties of operations to add and subtract



More information on this strategy is available on Animated Math Model #24.

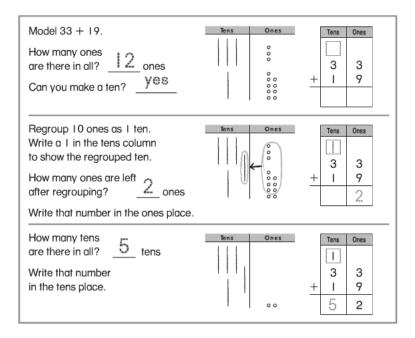
Lesson 4.4



More information on this strategy is available on Animated Math Model #25.

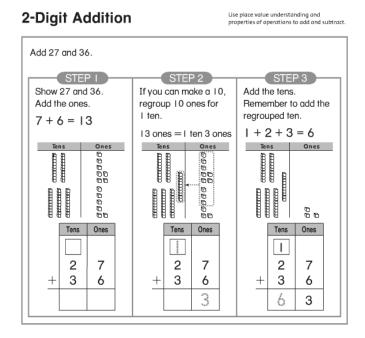
Model and Record 2-Digit Addition

Use place value understanding and properties of operations to add and subtract.



More information on this strategy is available on Animated Math Model #26.

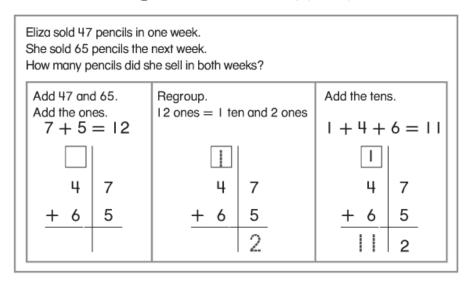
Lesson 4.6



More information on this strategy is available on Animated Math Model #27.

Practice 2-Digit Addition

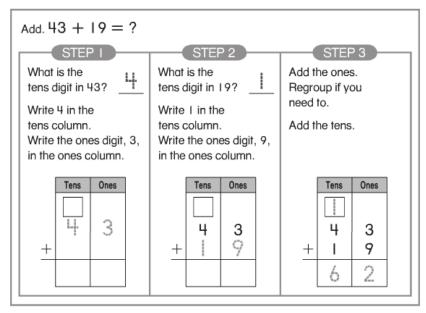
Use place value understanding and properties of operations to add and subtract.



More information on this strategy is available on Animated Math Model #27.

Lesson 4.8





More information on this strategy is available on Animated Math Model #28.

Problem Solving • Addition

Represent and solve problems involving

Hannah has 14 pencils. Juan has 13 pencils. How many pencils do they have in all?

Unlock the Problem

how many pencils they have in all		What information do I need to use? Hannah has 14 pencils. Juan has 19 pencils.	
Show how to solve the problem.			
Hannah's I 4 pencils	Juan's I 3 pencils		
? pencils in all		l	
<u>14+13=</u>		27 pencils	

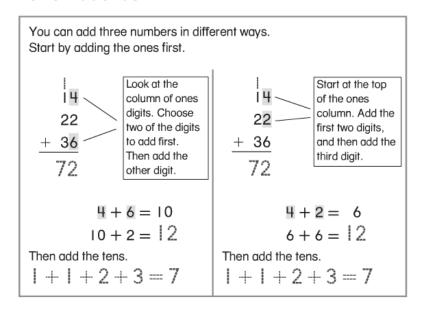
Lesson 4.10

Algebra • Write Equations to Represent and solve problems involving addition and subtraction. **Represent Addition**

Sara took 16 pictures. Then she took 17 more pictures. How many pictures did Sara take in all?				
Use a bar model to show the problem.				
16 pictures	17 pictures			
? pictures in all				
Write a number sentence. Solve.				

Algebra • Find Sums for 3 Addends

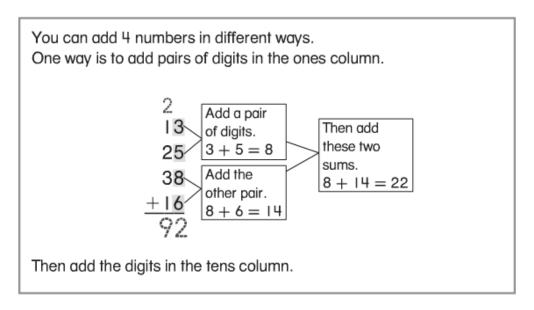
Use place value understanding and properties of operations to add and subtract.



Lesson 4.12

Algebra • Find Sums for 4 Addends

Use place value understanding and properties of operations to add and subtract.



Vocabulary

Regroup – an action that involves changing a number from one form to an equivalent form